Wireless Network IP-Camera 150N

WL-405

# Full Manual

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# 1. Introduction

## Overview

Thank you for purchasing this Internet IP camera! This IP camera is an ideal product for all kinds of video-surveillance purposes, like home/office safety, kid/pet monitoring, and remote video acquiring, etc. Unlike conventional close-circuit video camera, you're not limited to the length of cable! Once this IP camera is connected to the Internet, you can receive video from anywhere in the world where Internet access is available.

This IP-Camera can be connected by UTP cable, or by connecting it to your wireless network. Worry about the content will be intercepted by unauthorized person when the video is transmitted over the air? That's also not a problem! Unlike a conventional analog wireless camera, from which video can be intercepted by anyone who's got a compatible video receiver, this IP camera supports data encryption (WEP, WPA and WPA2), which provides the ultimate data security level.

If you're not familiar with wireless security, this IP camera also support WPS (Wi-Fi Protected Setup), which allows you to setup wireless security in a very simple way - just press the button on your router, and on your IP-Camera.

## Features

- No pre-loaded software required - all you need is a browser like Internet Explorer 6 (and above, with plug-in installed).
- Supports VGA (640 x 480), QVGA (320 x 240), and QQVGA (160 x 120) video resolution, with auto-exposure control
- Supports two video compression formats (MJPEG and MPEG4).
- Supports all major web browser, including Microsoft Internet Explorer, Apple, Safari, Google Chrome, Firefox, and Opera*.
- Wired and wireless network (802.11b / 802.11g / 802.11n) support.
- Wireless data encryption (WEP / WPA / WPA2).
- WPS (Wi-Fi Protected Setup), the easiest way to setup a secure wireless connection.
- Supports DHCP and you can also assign a fixed IP address to the camera also.
- Supports Dynamic DNS (used to allocate the IP camera's Internet address, when the ISP you're using does not assign you with a fixed Internet address).
- Supports UPnP, Windows XP (and above) will discover this IP camera in network neighborhood automatically.
- Send captured picture by Email or FTP when motion is detected.
- Configurable motion detection sensitivity (6 levels from most sensitive to least sensitive).
- Built-in real-time clock, date and time information will be recorded with every captured picture / video clip (also supports auto time synchronization via network time protocol).
- Upgradeable firmware - enjoy new functions without buying a new camera!
- Usage and event logging

*Some functionality like 'fit to window' only works on Microsoft Internet Explorer.

## *Physical Details*

### *Front - Network Camera*

| | |
|---|---|
| Antenna | Wireless network antenna |
| Link LED | Indicates LAN / Wi-Fi activity |
| Power LED | Indicates system status |
| Camera | Video camera with lens |

## *Rear - Network Camera*

WPS/Reset button

Power Connector

Network Connector

| | |
|---|---|
| **Tripod Connector** | Connects to any standard tripod / camera wall holder. |
| **WPS / Reset button** | Press and release this button to activate WPS mode;<br>Press and hold this button for 15 seconds to clear all settings. |
| **Power connector** | Connect to **5V / 1A DC**-power adapter. |
| **Lan connector** | Connect to LAN by Ethernet cable. |

## *Description for LED indicators*

| LED | Power | Link Status | Remark |
|---|---|---|---|
| Booting | Flash | Flash | |
| System Ready | On | Off | |
| LAN connected | On | On | |
| Data transferring | On | Quick Flash | |
| Activate WPS, push button for less than 5 sec. | On | Slow Flash | The configuration should be finished within 120 sec., after that the Link Status LED will go back to the original status |
| Reset to default, push button for longer than 10 sec. | Quick Flash | On | 2 LEDs will turn off when reset to default is taken effect then system will start booting |

## *Package Contents*

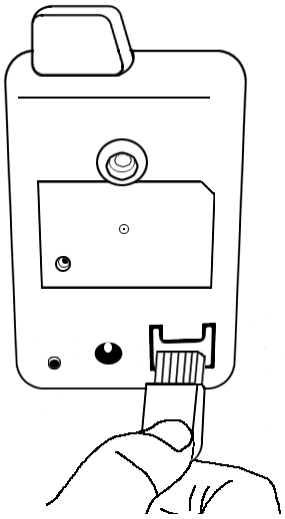
The following items should be included: If any of these items are damaged or missing, please contact your dealer immediately.

1. IP-Camera
2. Power Adapter
3. Ethernet Cable
4. Quick Installation Guide
5. Driver & Manual CDROM
6. Wall Mount

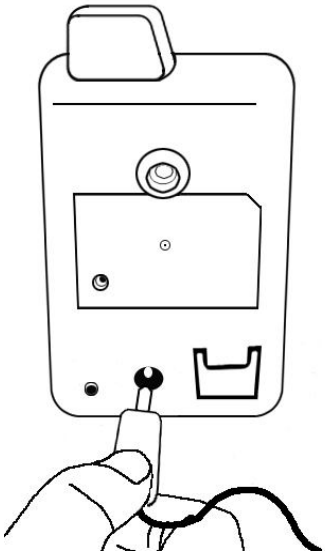
## *Camera Installation*

Please follow the following instructions to configure your IP camera:

- Unpack the product package and check if anything is missing.
- Insert the supplied LAN cable into the 'LAN' jack.
  You can skip this step if you'll only use the wireless network.



- Plug the power adapter into a wall socket, and connect the power connector to the power jack located at the back of the IP camera.

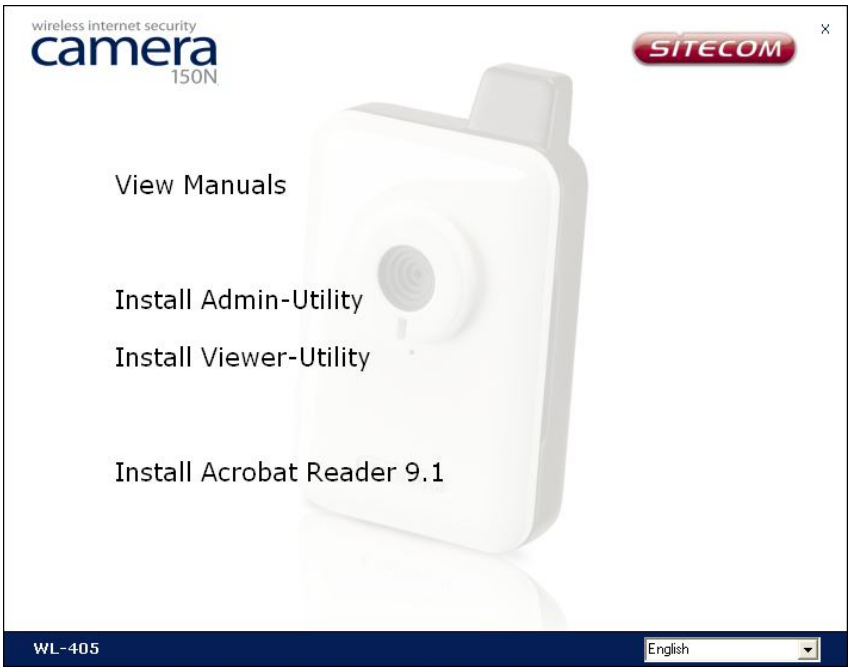


- Connect your tripod to tripod connector or place the camera in a secure place, and point the camera to the place you wish to monitor.

# 2. Using the surveillance software

When the CDROM is inserted into the CDROM player, the CD-Menu will automatically start.

(If it isn't started automatically, go to 'My Computer' > '**X:**' (where X: is the drive letter of the CDROM player) > open the 'Menu' folder > double click on 'CDMenu4.exe')

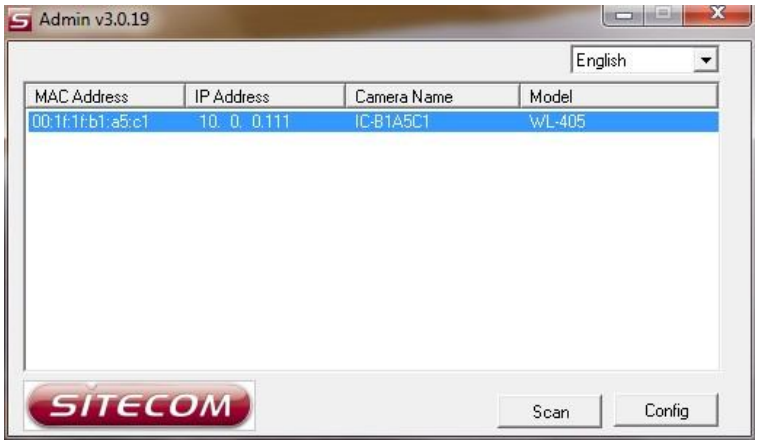



## 2.1 Admin utility

The Admin-utility can be used to detect the camera on the network, and to easily change the cameras network-configuration. Select “Install Admin-Utility” in the CD-Menu, to start the installation.

Setup - Sitecom IPCam Admin Utility
Welcome to the Sitecom IPCam Admin Utility Setup Wizard
This will install Sitecom IPCam Admin v3.0.19 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

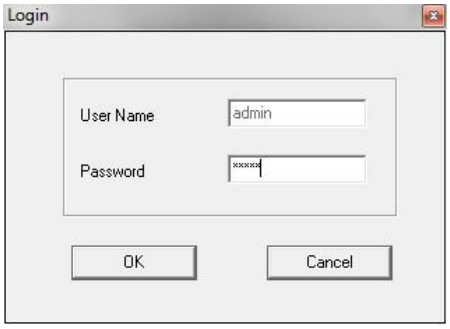
When the Admin-utility is installed, it can be found in the start-menu, via “START > Programs > Internet Camera > IPCam Admin Utility”




The Admin utility will detect all IP-camera's on your network. If the camera isn't detected, click the “Scan”-button.

- Double-click on the IP-camera in the list, to open the camera web-interface in your default browser.

- Select the IP-camera, and click “Config” to configure the network settings. A login dialog is shown. Enter the username and password for the camera (the default username is 'admin', and the default password is 'admin')




- After entering the correct username and password, the camera settings are shown:

- On the 'WLAN Setting' tab, the wireless settings are shown. IP-address settings can be changed on the 'LAN Setting' tab.

## *2.2 Viewer Utility*

The IP camera surveillance software provides various functions like video recording, after this software is installed, you can use your IP camera to safeguard your property. Please follow the following instructions to install the surveillance software. Select “Install Viewer-Utility” to start the installation of the viewer utility.

Setup - IPCam Surveillance Software
Welcome to the IPCam Surveillance Software Setup Wizard
This will install IPCam Surveillance Software 3.0.3.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

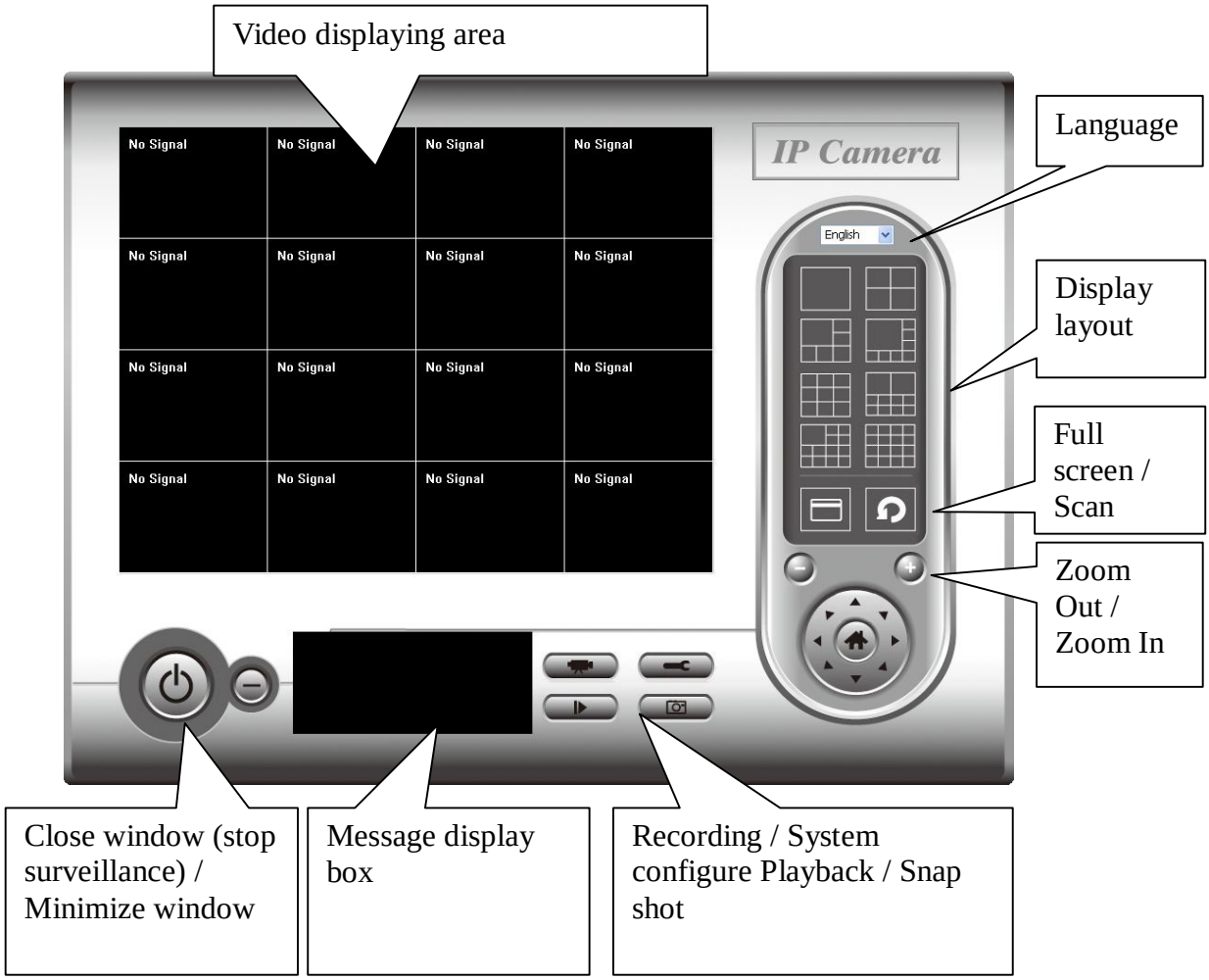
*Note: When the Viewer utility is installed, the ActiveX control for Internet Explorer is also installed.*

## *2.2.1 Using the Viewer utility*

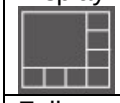
You can click 'IPCam Surveillance Software' icon from desktop, quick launch bar, or start menu to start the IP camera surveillance software.

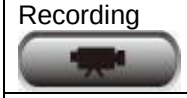
***Before you start:***

***IP camera surveillance software will only work when your monitor's resolution is '1024 x 768' or higher. Please change the resolution before you use IP camera surveillance software, or it won't start.***



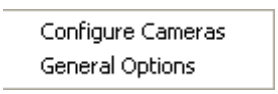

You can put the mouse cursor on a certain component and see its button name, and here're detailed descriptions of all buttons:

| Item | Description |
|---|---|
| Video displaying area | The image of all connected cameras will be displayed here. |
| Language | Select a language from this dropdown menu to change display language. |
| Display layout  | Change camera image display layout (Click a layout icon to change camera display layout). There are 8 kinds of available display layouts. |
| Full screen | Click this button to switch to full screen mode (only display all camera's image), press 'ESC' key to quit full screen mode. |

| | |
|---|---|
| | |
| Scan | Click this button and the IP camera surveillance software will switch displaying the image of all connected camera automatically. Click this button once to activate scan function (scan icon will become blue ), click again to stop scanning (scan icon will become white ). |
| Zoom out | Zoom-out (To see more objects).<br>This function is only available for supported cameras. |
| Zoom In | Zoom-in (Too see more details).<br>This function is only available for supported cameras. |
| Home | Click this button to return the camera to 'Home' (default) position.<br>This function is only available for supported cameras. |
| Recording  | Start video recording. |
| Configure | Software / camera configuration. |
| Playback | Playback a recorded video file. |
| Snapshot | Take a snapshot of current camera. |
| Message display | Displays all system messages like camera is disconnected etc. |
| Close window (stop surveillance) | Terminates IP camera surveillance software. |
| Minimize window | Minimizes IP camera surveillance software window. |
| Video displaying area | Displays the image of all cameras by the display layout you selected. |

### *2.2.2 Configure camera in viewer utility*

Before you use this IP camera surveillance software, you must configure the camera(s) you wish to connect. Please click 'System configure' button and a popup menu will appear:



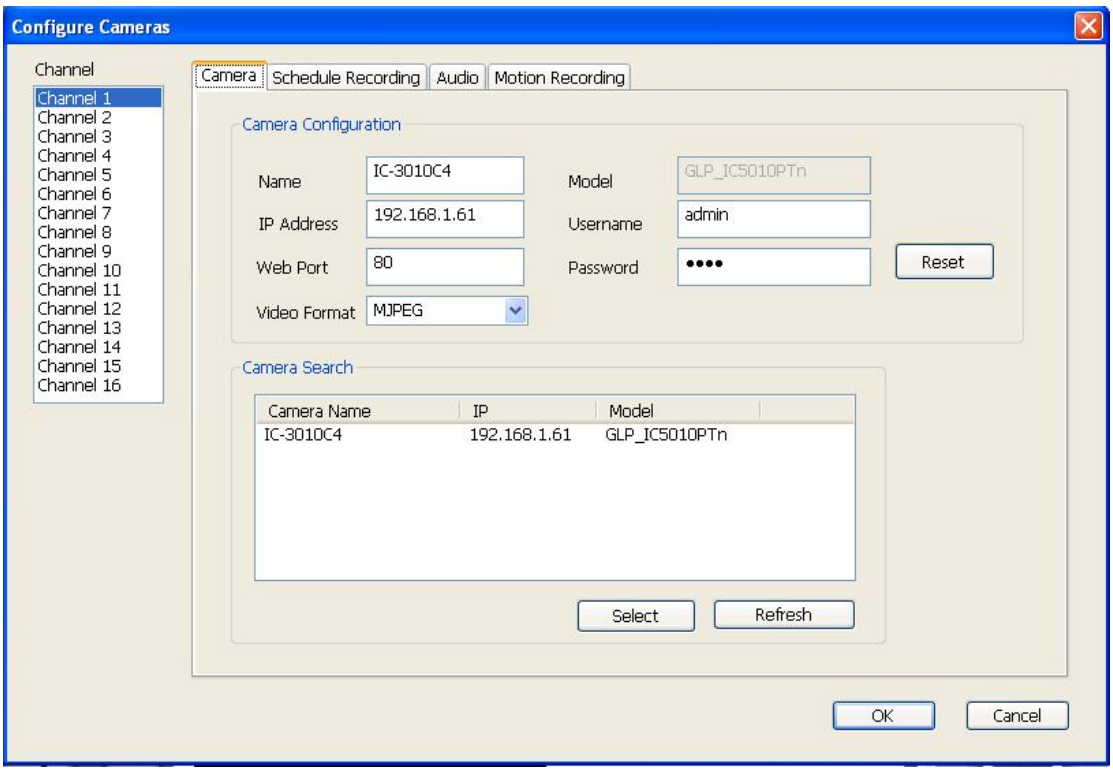

Please select 'Configure Cameras' to configure cameras.

***Note:*** *If you're prompted by a windows security alert which asks you if you want to block 'IPCamViewer' program, please click 'Unblock' button, or IP camera surveillance software will not be able to function correctly.*

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPCamViewer
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

### *2.2.2.1 'Camera' tab*

In this tab you can configure all cameras you wish to connect. Up to 16 cameras can be connected simultaneously:




Here are the descriptions of all setting items:

| Item | Description |
|---|---|
| Channel | Select the channel number you wish to set. |
| Camera Search | All cameras found on your local network will be displayed in 'Camera Search' box. |
| Select | Select a camera listed in 'Camera Search' box, and click 'Select' button to fill all parameters of selected camera in every camera |

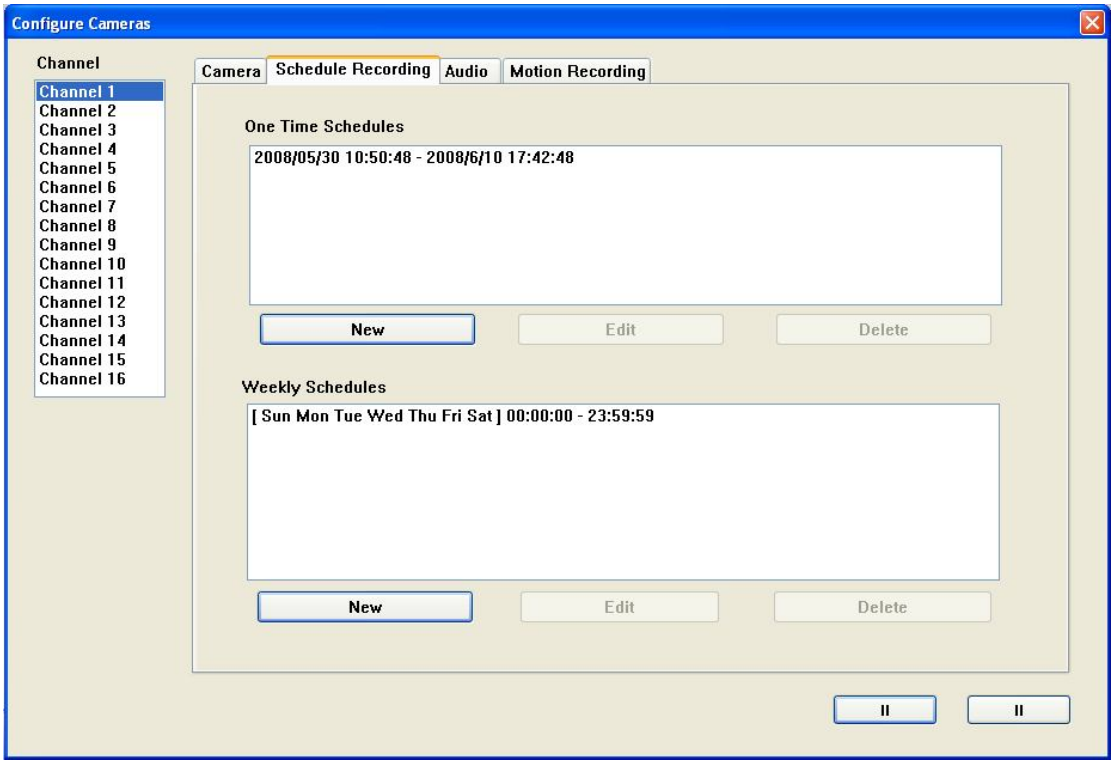
| | |
|---|---|
| | configuration fields. |
| Refresh | Rescan all cameras on your local network. If you didn't see the camera you expected in 'Camera Search' box, or a new camera has been joined to your local network after last scan. |
| Name* | Input the name of camera here. Default value is the first 6 bytes of camera's MAC address, you can change the name of camera so you can remember the camera's location of purpose easily. |
| Model | Displays the model of selected camera, this field can not be changed. |
| IP* | Input the IP address of camera. |
| Username* | Input the user name of camera. |
| Web Port* | Input the web port of the camera. By default it's '80'. |
| Password | Input the password of camera. Default value is '1234'. You should change the password if you changed the password of selected camera. |
| Video Format** | Select the video encoding format of this camera (MJPEG or MPEG4). |
| Reset | Clear all fields in 'Camera Configuration' section. |
| OK | Save settings in this tab. |
| Cancel | Discard all settings in this tab. |

*: It's recommended to use 'Select' button to fill the content of this field.
**: Only available for cameras support this function.

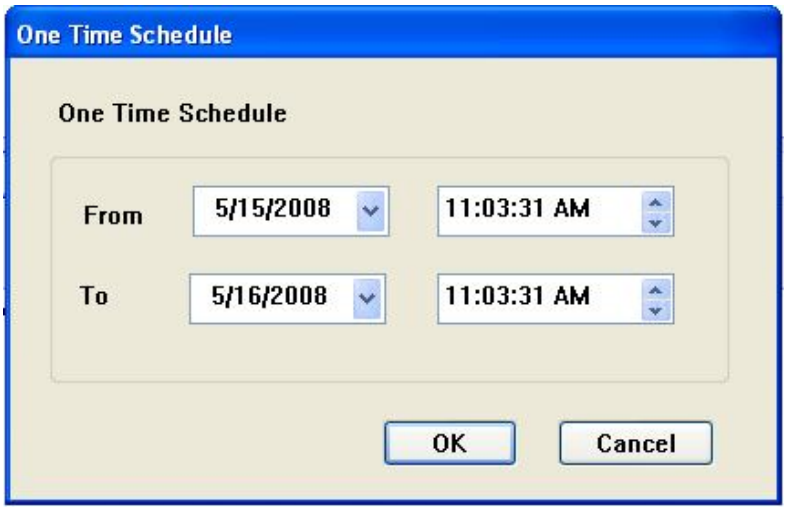
After you've set all channels you wish to set, click 'OK' to save settings, and if everything's correct, you'll see the camera's image in IP camera surveillance software's main menu:

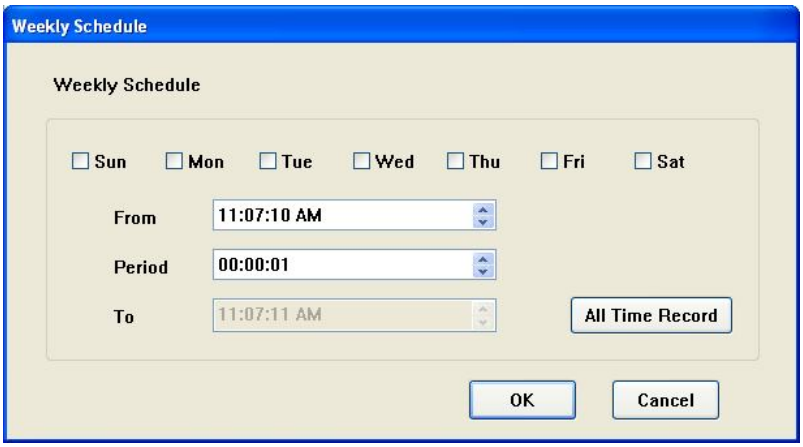
## *2.2.2.2 Schedule Recording*

In this tab, you can setup scheduled video recording, so you can record the video captured by all cameras you have by a pre-defined schedule.



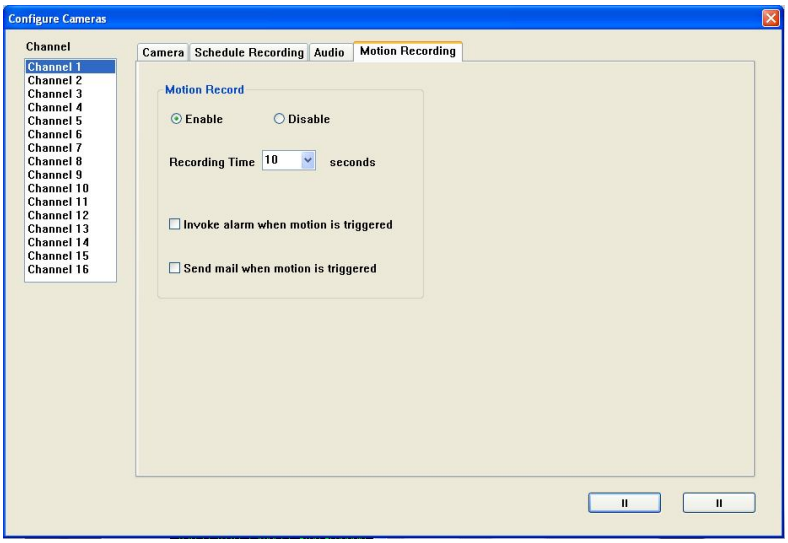

Here are the descriptions of all setting items:

| Item | Description |
|---|---|
| Channel | Select the channel number you wish to set. |
| One Time Schedules | You can specify the one-time schedule for selected camera; this schedule will be executed once only. |
| New (One Time Schedules) | Click this button and a new window will appear:<br>  <br><br>Please specify the time duration of this one-time schedule (the date and time of 'From' and 'To'), then click 'OK' to save settings. |

| | |
|---|---|
| | Please note you must set a schedule that will be happened in the future, you can not set a schedule in the past. |
| Edit | You can modify a scheduled recording item. Select a schedule in 'One Time Schedules' list, and click 'Edit' button to edit the start and end time of this schedule. |
| Delete | Delete a selected schedule item. |
| New (Weekly Schedules) | Click this button and a new window will appear:<br>  <br><br>You can define recording schedule that will be executed at the specified time of certain weekday(s) in a week. Please check all weekdays that applies, and set the start time in 'From' field. You can set the duration of video recording in 'Period' field (format is HH:MM:SS), and the end time will be calculated automatically and displayed in 'To' field. You can also click 'All Time Record' button to define a recording schedule that will be executed every weekday, from 12:00:00AM to 11:59:59PM.<br><br>Click 'OK' to save changes. |
| Edit | You can modify a scheduled recording item. Select a schedule in 'One Time Schedules' list, and click 'Edit' button to edit the start and end time of this schedule. |
| Delete | Delete a selected schedule item. |
| OK | Save settings in this tab. |
| Cancel | Discard all settings in this tab. |

## *2.2.2.3 Motion Recording*

With this function activated, only motions captured by the camera will be recorded, so you don't have to waste hard disk storage space on images you don't need to pay attention to.




Here are the descriptions of all setting items:

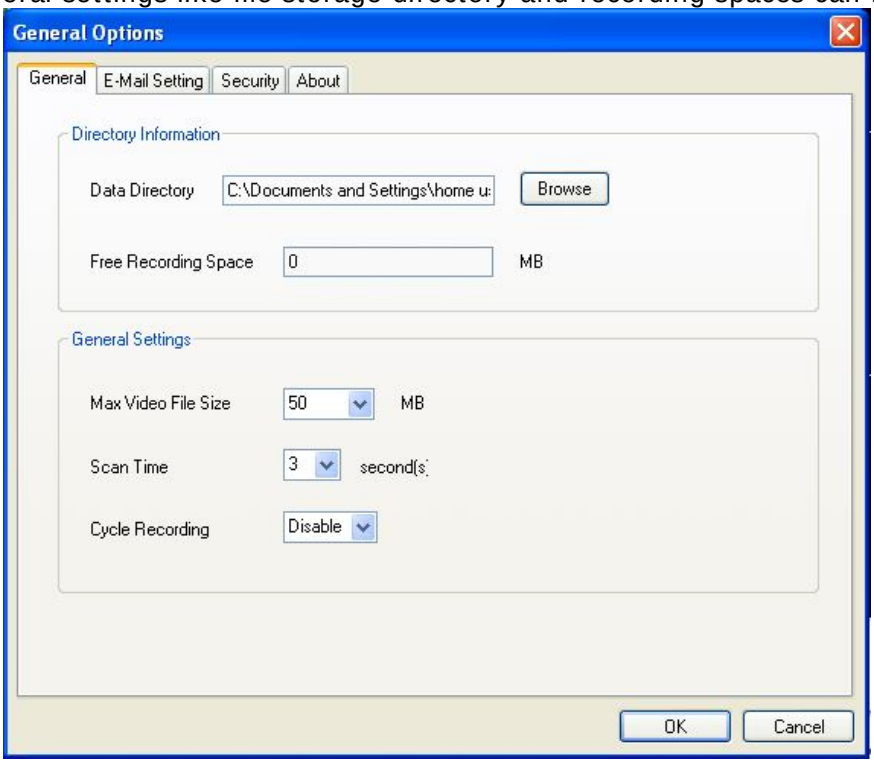
| Item | Description |
|---|---|
| Channel | Select the channel number you wish to set. |
| Enable | Enable motion record function. |
| Disable | Disable motion record function. |
| Recording Time | Select the time duration that camera will record when a motion has been detected from dropdown menu in seconds. |
| Invoke alarm when motion is triggered | Send an alarm when a motion has been detected by the camera. |
| Send mail when motion is triggered | Send an email to a pre-defined address when a motion has been detected by the camera. |
| OK | Save settings in this tab. |
| Cancel | Discard all settings in this tab. |

### 2.2.3 General Options

You can set system-wide settings of this IP camera surveillance software in this menu.

## 2.2.3.1 'General Tab'

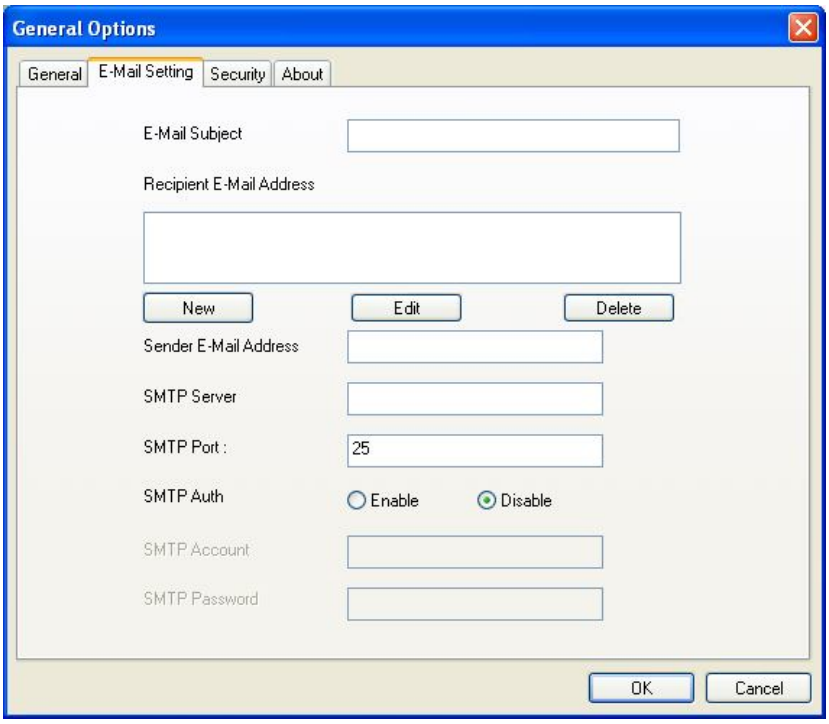
All general settings like file storage directory and recording spaces can be set here.

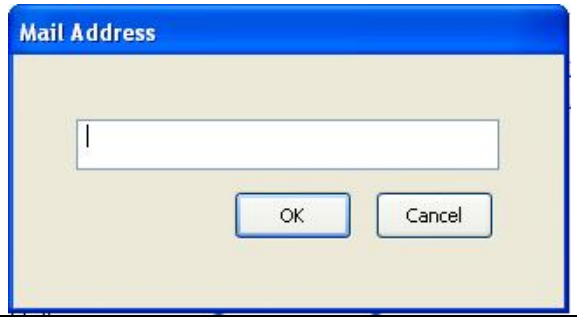



| Item | Description |
|---|---|
| Data Directory | Set the directory (folder) you wish to store the recorded video and captured image. You can click 'Browse' button to pick a directory in your hard disk. |
| Free Recording Space | Displays remaining storage space. |
| Max Video File Size | Defines the maximum file size of every video file. When the size of file exceeds this value, IP camera surveillance software will open another file to record the video. |
| Scan Time | Define the time period to pause between every camera switch when you activate 'Scan' function. |
| Cycle Recording | You can decide the behavior when hard disk space is full:<br><br>Disable: Do not overwrite recorded video files.<br>Enable: Overwrite recorded video files. |
| OK | Save settings in this tab. |
| Cancel | Discard all settings in this tab. |

### 2.2.3.2 'E-Mail Settings tab'

If you want to use motion detection function and wish to get an email that contains the image captured by the camera, please setup your email related parameters here first.



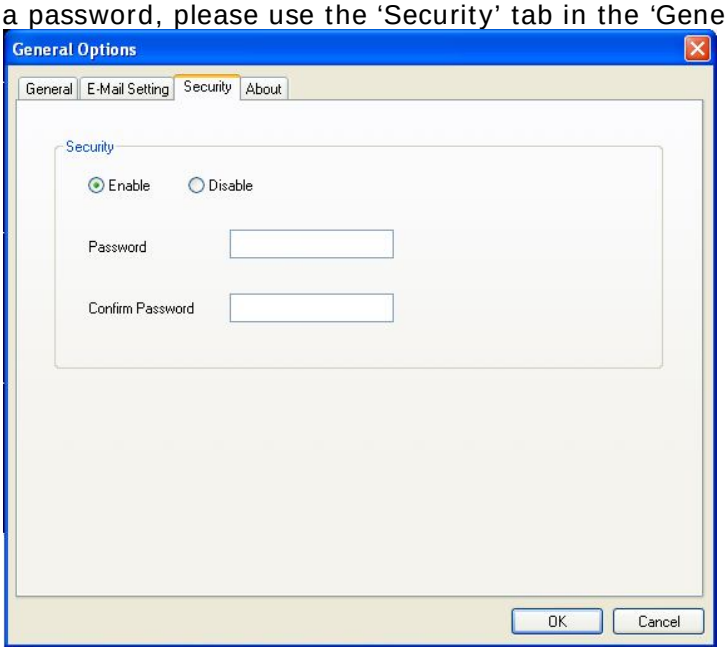

| Item | Description |
|---|---|
| E-Mail Subject | Specify the subject of sending email. |
| Recipient E-Mail Address | Here lists all email addresses you set. |
| New | Click this button and you'll be prompted to input the email address. Click 'OK' to save changes.<br>  |
| Edit | Select an email address from 'Recipient E-Mail Address' box, and click 'Edit' to edit the email address. |
| Delete | Delete selected email address. |
| Sender E-Mail Address | Specify the email address of email sender. |
| SMTP Server | Specify the IP address or host name of the SMTP server you wish to use. For most of ISPs they will only allow its subscriber to use their SMTP server, if you don't know which SMTP server you should use, please refer to the setting of your email software or ask your ISP / network administrator. |
| SMTP port | Specify the port number of the SMTP server you wish to use here. By default (and the setting of most of SMTP servers) it's '25'. |

| | |
|---|---|
| SMTP Auth | Select 'Enable' if your SMTP server requires authentication, select 'Disable' if it's not required. If you don't know if your SMTP server requires authentication, please refer to the setting of your email software or ask your ISP / network administrator. |
| SMTP Account | Input the SMTP account (username) of your SMTP server here. In most cases, it's the same with your POP3 username (the one you used to receive email). Please refer to the setting of your email software or ask your ISP / network administrator if you're not sure about this. |
| SMTP Password | Input the SMTP password of your SMTP server here. In most cases, it's the same with your POP3 password (the one you used to receive email). Please refer to the setting of your email software or ask your ISP / network administrator if you're not sure about this. |
| OK | Save settings in this tab. |
| Cancel | Discard all settings in this tab. |

### *2.2.3.3 'Security tab'*

If you don't want other people to access this IP camera surveillance software, you can set a password to protect it. You'll need to input the password every time you wish to use this IP camera surveillance software:

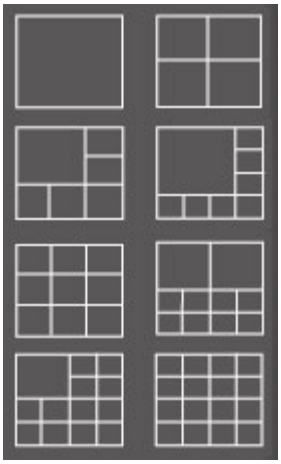
To set a password, please use the 'Security' tab in the 'General Options' menu:



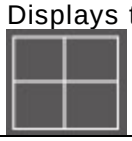
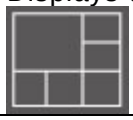
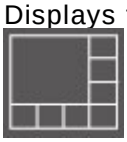
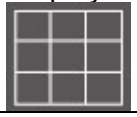
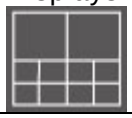
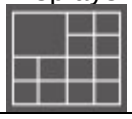
| Item | Description |
| --- | --- |
| Enable | Requires password authentication when this software starts. |
| Disable | Password authentication is not required when this software starts. |
| Password | Input the password you wish to use here. |
| Confirm Password | Input the password you wish to use here again. |

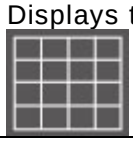
### *2.2.4 Change Display Layout*

This IP camera surveillance software provides 8 kinds of display layout:



Every layout displays different number of camera and camera arrangement, you can click the icon that presents a specific kind of layout, and the video displaying area will change accordingly.

| | |
|---|---|
| Layout style 1: 1 Camera only | Displays the video of 1 camera only. |
| Layout style 2: 4 Cameras | Displays the video of up to 4 cameras.  |
| Layout style 3: 6 Cameras | Displays the video of up to 6 cameras.  |
| Layout style 4: 8 Cameras | Displays the video of up to 8 cameras.  |
| Layout style 5: 9 Cameras | Displays the video of up to 9 cameras.  |
| Layout style 6: 10 Cameras | Displays the video of up to 10 cameras.  |
| Layout style 7: 13 Cameras | Displays the video of up to 13 cameras.  |

| | |
|---|---|
| Layout style 8: 16 Cameras | Displays the video of up to 16 cameras.  |

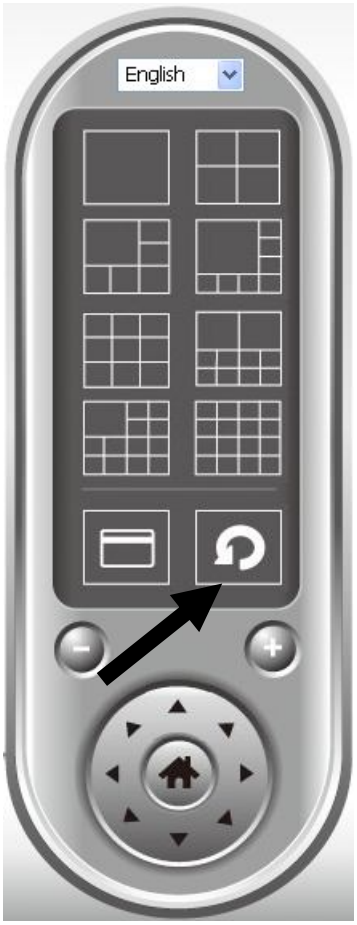
### *2.2.5 Full-screen mode*

If you want to use all available spaces on your monitor to display surveillance image, you can click 'Full Screen' button to switch display mode to full-screen mode.

To exit full-screen mode, press the 'ESC' key.

### *2.2.6 Scan*

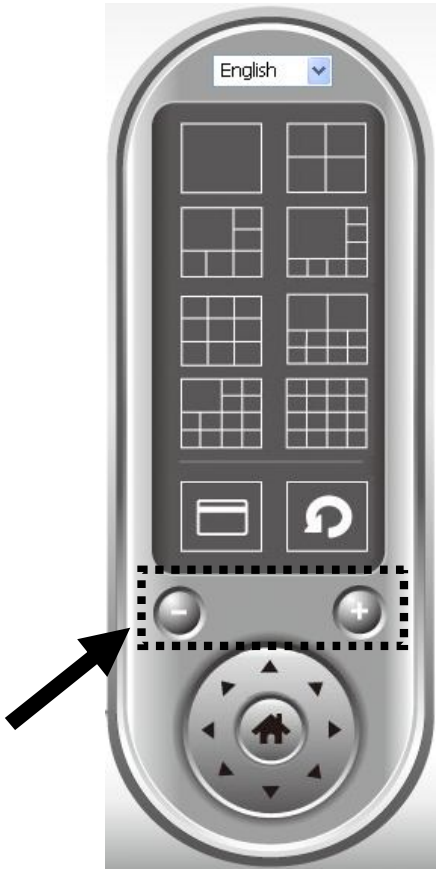
If you have more than one camera configured, and you wish to switch the displaying image between cameras, you can click ‘Scan’ button to switch between all configured cameras.




Click ‘Scan’ button once to activate scan function (scan icon will become blue ), click again to stop scanning (scan icon will become white ).

### *2.2.7 Zoom-in / Zoom-out*

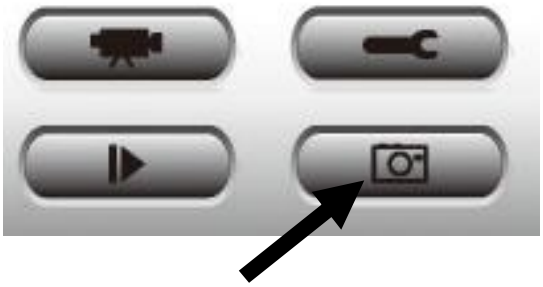
For cameras that support zoom-in / zoom-out function, you can use this function to see more objects that fall in the scope of camera's view, or enlarge the image size of a certain object to see its detail.




Please select a camera in video displaying area by clicking on its image, then click button to see more objects that fall in the scope of camera's view, or click to enlarge the image size of a certain object to see its detail.

### *2.2.8 Snapshot*

You can take a snapshot of selected camera and save it to ‘Snapshot’ sub-folder of pre-defined data directory.



Click the snapshot button once to take a snapshot; you can take as much snapshot as you want before hard disk is full.

### *2.2.9 Recording*

You can start video recording of selected camera manually by clicking ‘Start Recording’ button:

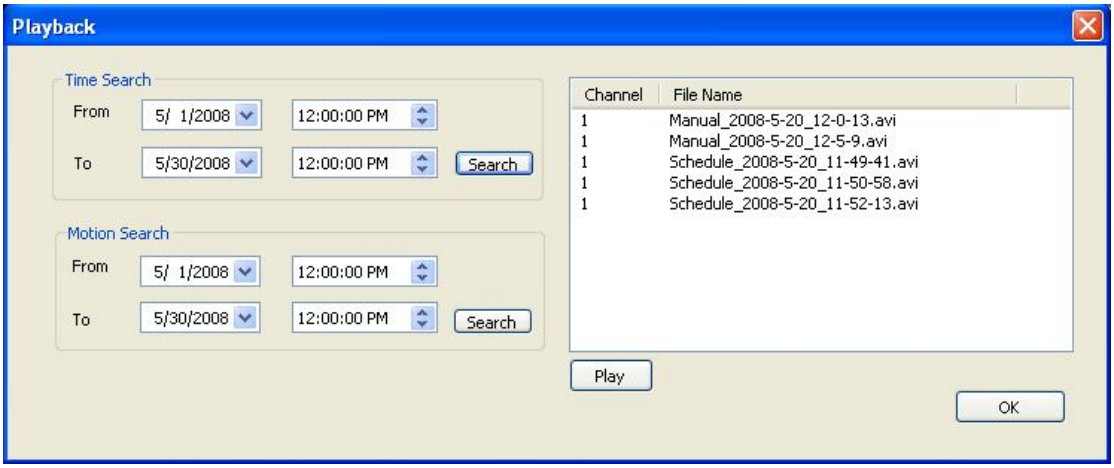
When recording starts, you’ll see a message displayed in message displaying box like ‘1/1 10:00:00, Camera 2 Start Manual’, which means camera 1 starts recording manually on 1/1 at 10:00:00.

To stop recording, click ‘Start Recording’ button again, and you’ll see a message displayed in message displaying box like ‘1/1 10:00:00, Camera 2 Stop Manual’.

### *2.2.10 Video Playback*

You can playback all recorded video by clicking this button.

A new window will appear:

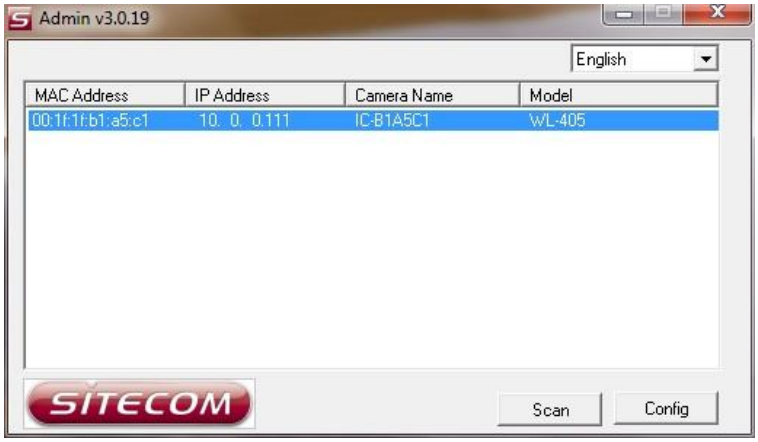



You have to search the video file before you can play it. There are two kinds of video search: Time Search (search all videos file that falls in a specific period of time) and Motion Search (search all videos recorded by motion detection function and falls in a specific period of time).

Please define the start and end date / time of the time period you wish to search, and then click ‘Search’ button (of ‘Time Search’ of ‘Motion’ Search’). All found videos will be displayed, select the video you wish to play and click ‘Play’ button to playback.

## *Locate the IP Address of this IP Camera*

Connect your IP Cam by cable on your router open the admin utility, and click on the “Scan button”
You will see the IP address of the IP Cam and the hostname.
If the IP Cam isn’t connected to a router / DHCP server (see chapter **4.2**)



## *Log On to Web Management Interface*

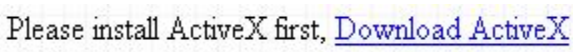
Make sure the IP camera is correctly powered (Power LED is on), and then launch your browser and type the IP address of the IP camera in address bar.

You should be prompted to input the user name and password:

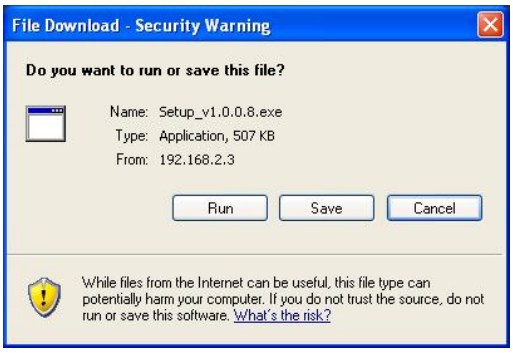
The default user name is '**admin**' (in lower case) and password is '**admin**'. Click 'OK' to continue after user name and password has entered.

If you're rejected, maybe the password has been modified previously. This should not happen if this is a newly-purchased camera, however, if you get the camera from someone else, the password would be changed. Please try to obtain the correct user name / password, or you'll have to reset the camera to factory defaults.

If you see this message when you login to the IP camera, please click the link to download ActiveX:




Press 'Run' to download and install the ActiveX control:


File Download - Security Warning
Do you want to run or save this file?
Name: Setup_v1.0.0.8.exe
Type: Application, 507 KB
From: 192.168.2.3
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

Press ‘Next’ to start installation; press ‘Next’ button when you’re prompted, until installation is complete.

# 3. Using Web Management Interface

## 3.1 Camera Settings

The first menu after you logged onto web management interface is 'Status', and on this page you can see the real-time image from the camera.

| Item | Description |
|---|---|
| Video Format | Specifies video encoding format. You can choose MPEG4 or MJPEG (Motion-JPEG).<br><br>MPEG4 mode also supports motion detection. |
| Snapshot | Take a snapshot picture and save the picture to your computer's hard drive. Click on directory display and you'll be prompted to select a folder to save snapshot file.<br><br>*NOTE: Please see chapter 4.2 for instructions if you're using Windows Vista or Windows 7.* |
| Record | Start video recording and save recorded video clip to your computer's hard drive. Click on directory display and you'll be prompted to select a folder to save snapshot file.<br><br>*NOTE: Please see chapter 4.2 for instructions if you're using Windows Vista or Windows 7.* |

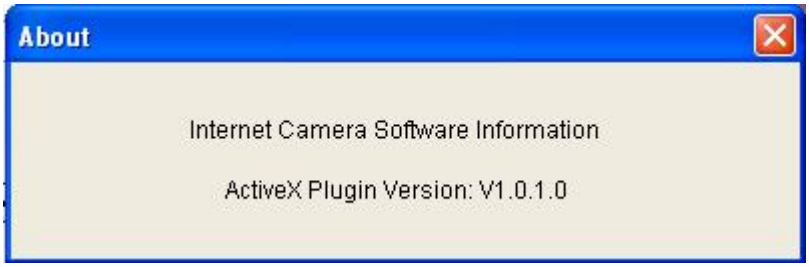
*Please note: If you're not using Microsoft Internet Explorer as web browser, some functionalities may not work properly.

### *3.1.1 About*

This function will provide you with the version number of current IP camera plugin, which is useful when you need online support.

To see version information, right-click on the image. A pop-up menu will appear:

Select ‘About’ and the version information will appear:



## *3.2 Status*

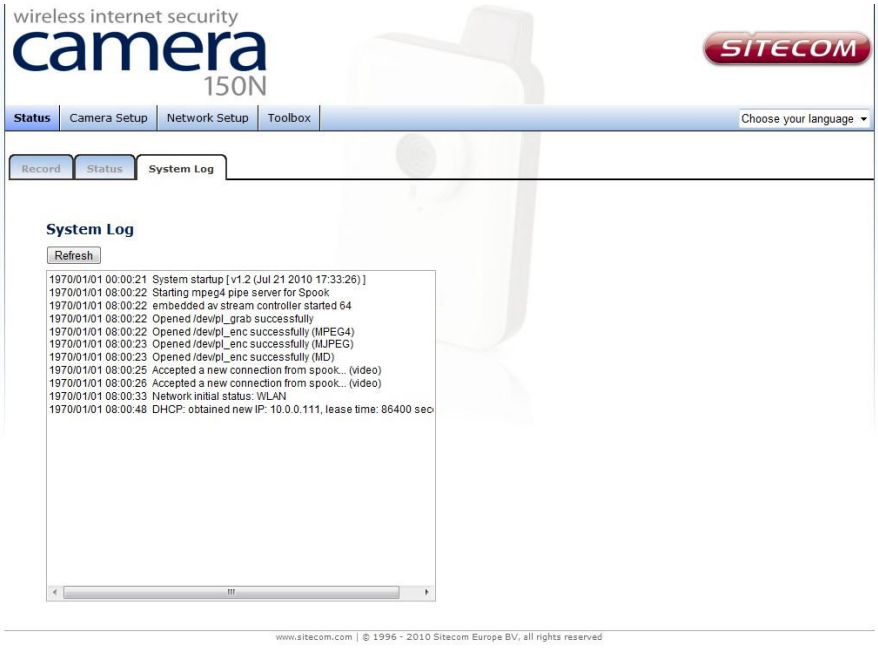
This menu provides all information about this IP camera, like firmware version, system uptime, date / time, and network information.

You can access this menu by clicking ‘Status’ on the top of web management interface, and opening the 'Status' tab.

## *3.3 Log*

All activities of this IP camera will be logged, and you and enter ‘Log’ menu to view these logs.

You can access this menu by clicking ‘Log’ on the top of web management interface.


wireless internet security
camera
150N
SITECOM
Status
Camera Setup
Network Setup
Toolbox
Choose your language
Record
Status
System Log
System Log
Refresh
1970/01/01 00:00:21 System startup [ v1.2 (Jul 21 2010 17:33:26) ]
1970/01/01 08:00:22 Starting mpeg4 pipe server for Spook
1970/01/01 08:00:22 embedded av stream controller started 64
1970/01/01 08:00:22 Opened /dev/pl_grab successfully
1970/01/01 08:00:22 Opened /dev/pl_enc successfully (MPEG4)
1970/01/01 08:00:23 Opened /dev/pl_enc successfully (MJPEG)
1970/01/01 08:00:23 Opened /dev/pl_enc successfully (MD)
1970/01/01 08:00:25 Accepted a new connection from spook... (video)
1970/01/01 08:00:26 Accepted a new connection from spook... (video)
1970/01/01 08:00:33 Network initial status: WLAN
1970/01/01 08:00:48 DHCP: obtained new IP: 10.0.0.111, lease time: 86400 sec
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## 3.4 Video Setup

You can specify the video and audio parameters of this IP camera here.

### 3.4.1 Dual Mode

This IP camera supports two video encoding formats: MPEG4 and MJPEG. You can select the encoding format from one of them.

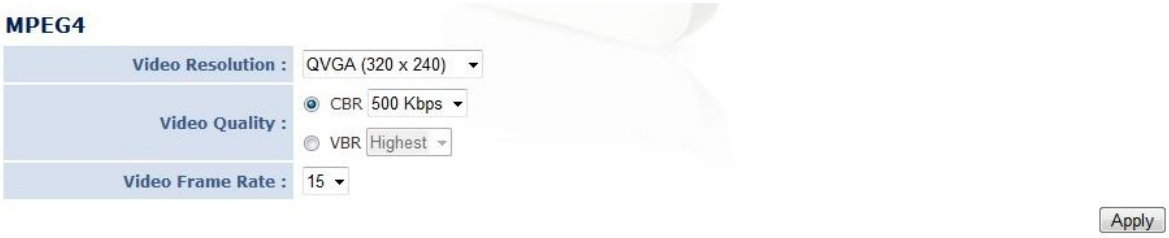
The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Video Mode | Specify default video encoding format of this IP camera here. Available options are MPEG4 and MJPEG. |

Click 'Apply' to save settings and make the new settings take effect.

### 3.4.2 MPEG4

If you selected 'MPEG4' as the video encoding format of this IP camera, you can specify the parameters of the MPEG4 video encoder here.




The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Video Resolution | Specify video resolution of MPEG4 video encoder. Available options are VGA and QVGA resolution. VGA resolution provides more details than QVGA, but requires more network bandwidth. |
| Video Quality | Specify video quality. There are two video quality types: CBR (Constant Bit Rate), and VBR (Variable Bit Rate):<br><br>CBR: The video bit rate is fixed, you can select a bit rate from dropdown menu. Higher bit rate means better video quality. But if your network bandwidth is limited, select a lower bit rate will help. |

| | |
|---|---|
| | VBR: Video bit rate is variable based on the video content being transferred. There're 5 levels of setting from 'Lowest' to 'Highest'. Select 'Lowest' will lower video quality and save network bandwidth; if a better video quality is required, select 'High' or 'Highest'. |
| Video Frame Rate | Specify video refresh rate of MPEG4 video encoder. Higher video refresh rate provides more details about motion, but requires more network bandwidth.<br><br>CAUTION: Choosing a low frame rate will save bandwidth, but may not be able to capture every motion if the object that IP camera points to is moving too fast. |

Click 'Apply' to save settings and make the new settings take effect.

### *3.4.3 MJPEG*

If you selected 'MJPEG' as the video encoding format of this IP camera, you can specify the parameters of the MJPEG video encoder here.

The descriptions of every setting in this menu will be given below:

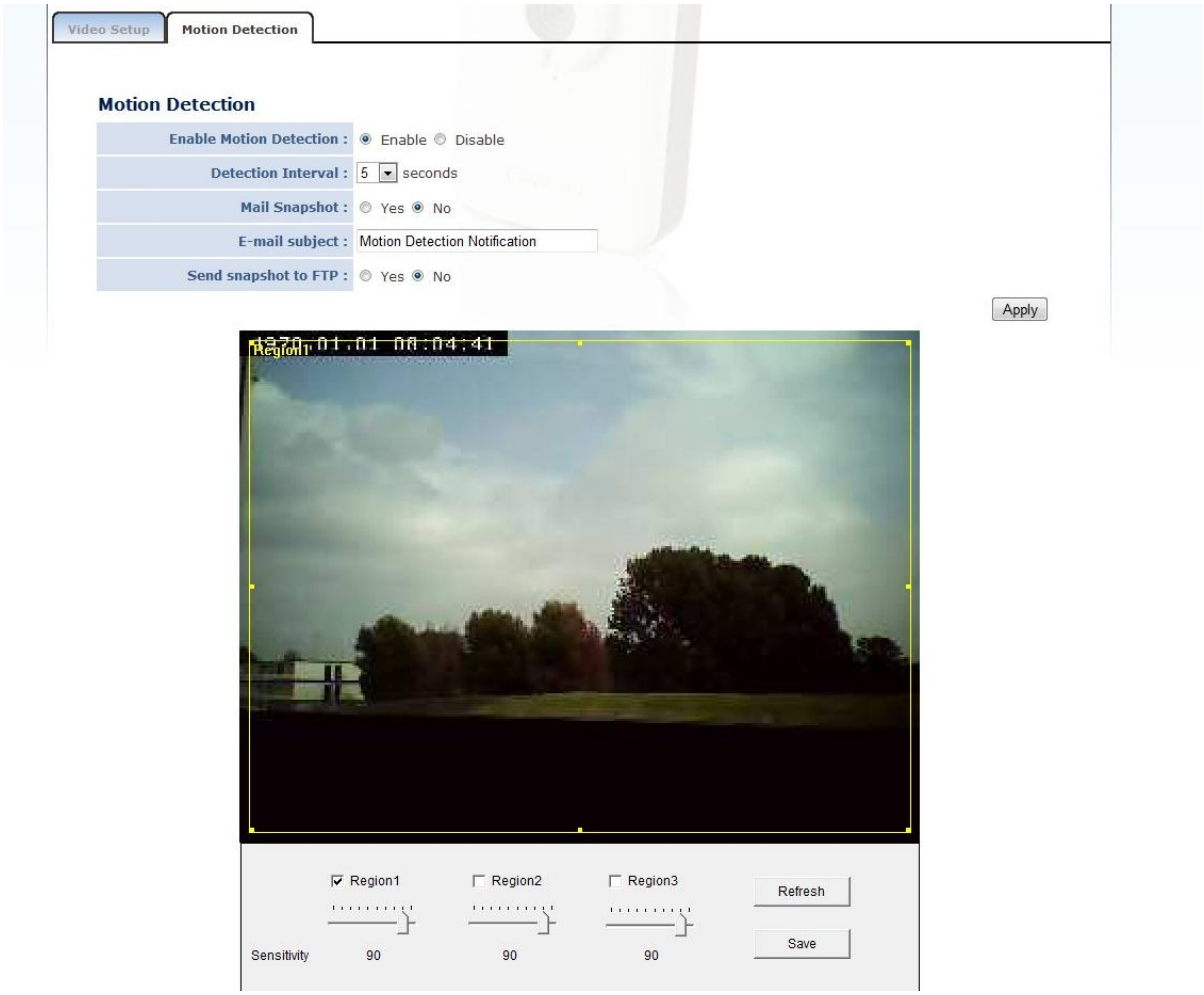
| Item | Description |
|---|---|
| Video Resolution | Specify video resolution of MJPEG video encoder. Available options are VGA, QVGA, and QQVGA resolution. VGA resolution provides more details than QVGA and QQVGA, but requires more network bandwidth. |
| Video Quality | Specify video encoding quality of MJPEG video encoder. There are five levels of video quality from highest to lowest. Higher video quality provides better video quality, but requires more network bandwidth. |
| Video Frame Rate | Specify video refresh rate of MJPEG video encoder. Higher video refresh rate provides more details about motion, but requires more network bandwidth.<br><br>CAUTION: Choosing a low frame rate will save bandwidth, but may not be able to capture every motion if the object that IP camera points to is moving fast. |

Click 'Apply' to save settings and make the new settings take effect.

## 3.6 Motion Detection

### 3.6.1 Basic Settings

The motion detection function makes this IP camera become your non-stop guard. You don't have to waste all the time monitoring the images from the camera, and camera will detect all motions for you. Once motion is detected, a captured image will be sent to you by Email or via FTP.




You can access this menu by clicking 'Video Setup' on the top of web management interface, and opening the 'Motion Detection' tab.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Motion Detection Enable | Select 'Enable' to start motion detection, and select 'Disable' to disabled it. |
| Detection Interval | Specify the time interval between two motion detections in seconds. If a motion is detected after last detection time, and before next detection time, nothing will be send by Email or via FTP.<br><br>Please specify a time interval that suites your need. If the time interval is too long, you may not be able to know what is happened between time interval; if the time interval is too short, you may receive too much unnecessary images, and consumes too much disk |

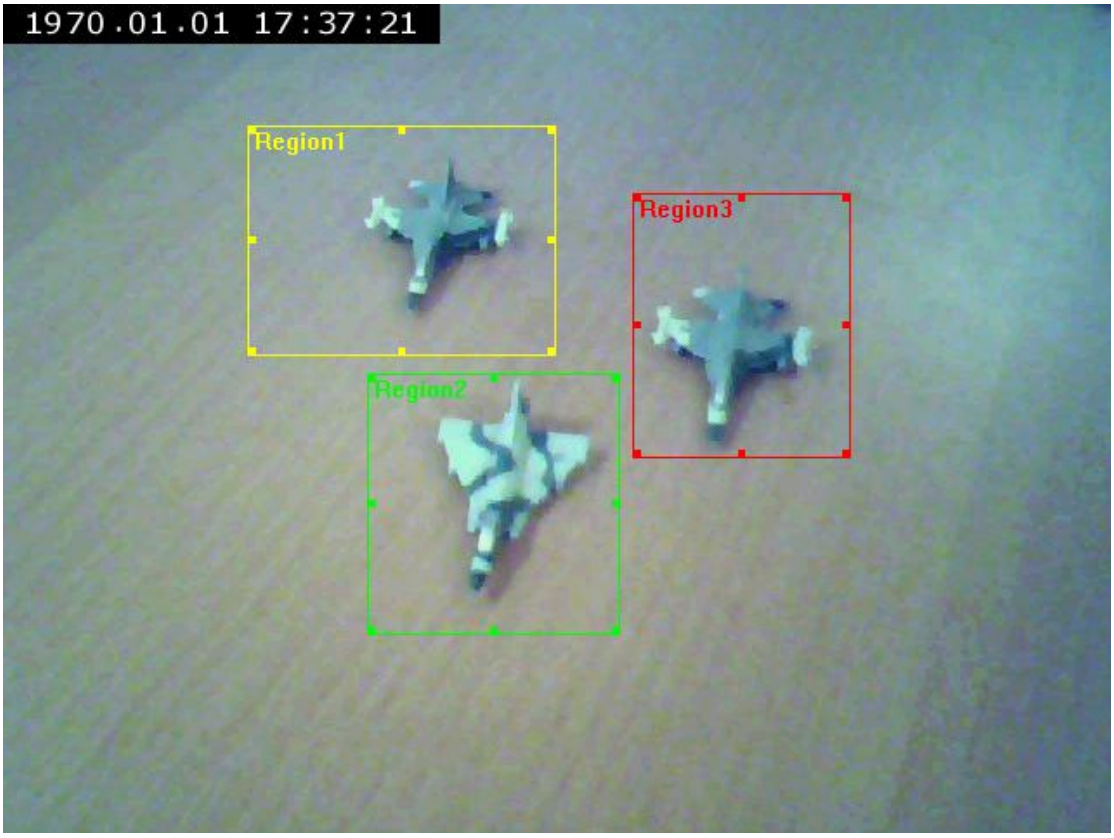
| | |
|---|---|
| | storage spaces on Email and / or FTP server. |
| Mail snapshot | Select 'Yes' to send a picture to the Email address you specified in 'E-Mail & FTP' menu when a motion is detection, and select 'No' to disable this function. |
| E-Mail Subject | Set the subject of Email being sent here. This will help you to distinguish the Email sent by this IP camera from others. |
| Send snapshot file to FTP | Select 'Yes' to send a picture to the FTP server you specified in 'E-Mail & FTP' menu when a motion is detection, and select 'No' to disable this function. |

Click 'Apply' to save settings and make the new settings take effect.

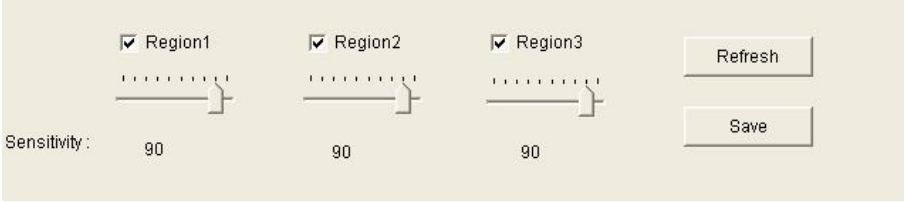
### *3.6.2 Setup Motion Detection Regions*

If you only want to be notified when motion is detected in certain area of captured image, you can use this function and motions outside of motion detection region will be ignored, so you won't receive too much 'useless' notifications.

This IP camera supports up to 3 motion detection regions. To setup detection region, Please use your mouse to drag and resize motion detection regions marked as 'Region1', 'Region2', and 'Region3' (which appear as yellow, green, and red squares on the image):




Motion detection region settings can be found at the bottom of this page:



The descriptions of every setting in motion detection menu will be given below:

| Item | Description |
|---|---|
| Region1 / Region2 / Region3 | Check the box to enable / disable a certain motion detection area. |
| Sensitivity | Control the detection sensitivity of motion detection of respective motion detection region. When sensitivity is higher, small changes in image will cause IP camera to send a Email / FTP notification; if you received too much unwanted notification, try to set sensitivity to a lower value. |
| Refresh | Click this button to take and display a new picture so you can make real-time adjustments to motion detection region. |
| Save | Save current motion detection settings. |

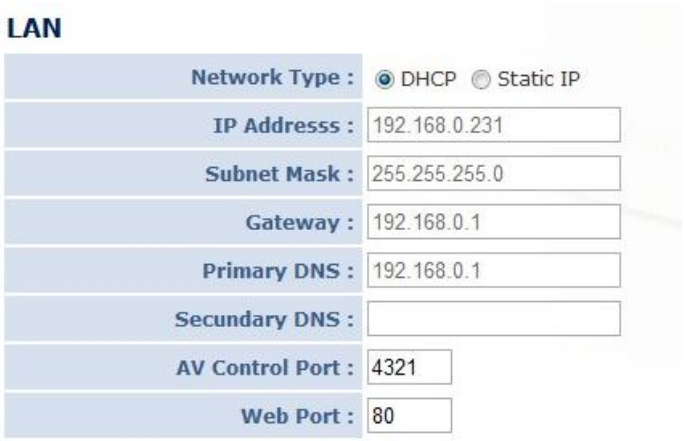
## 3.7 Network Setup

All network-related settings can be found in this menu, and you have to specify TCP/IP parameters in this menu if you want to change IP address, use PPPoE, Dynamic DNS, and activate UPnP function.

You can access this menu by clicking ‘Network Setup’ on the top of web management interface, and opening the 'Network Settings' tab.

### 3.7.1 LAN

You can define IP address and select the port number you wish to use here.




The descriptions of every setting in this menu will be given below:

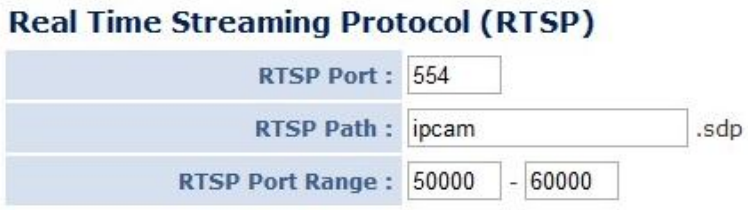
| Item | Description |
|---|---|
| Network Type | This camera can obtain the IP address from DHCP server automatically (if you have one), or set a fixed IP address. Select ‘DHCP’ to obtain IP address automatically or ‘Static IP Address’ to assign this IP camera with a fixed IP address.<br><br>When ‘DHCP’ is selected, IP address parameters below will be greyed out. |
| IP Address | Specify the IP address for this IP camera here. |
| Subnet Mask | Specify the subnet mask for this IP camera here. |
| Gateway | Specify the gateway address of the local network here. |
| Primary DNS | Specify the IP address of DNS server here. Please input IP address only. If you don’t know the address of DNS server, ask your network administrator or your ISP for help. |
| Secondary DNS | Specify the IP address of backup DNS server here. When primary DNS is unreachable, IP camera will use the IP address specified here as DNS server.<br><br>This field is optional. |
| AV Control Port | Specify the port number of video transfer here. If you have firewall on your network, you need to allow computers on Internet to access this port number of the IP address of IP camera, or you’ll not be able to view video from Internet. |
| Web Port | Specify the port number of web management interface here. If it’s not 80, you’ll have to add ‘:*port’* after the IP address / hostname of this IP camera. |

| | |
|---|---|
| | For example, if the HTTP port number you specified here is 90 and the IP address of IP camera is 10.20.20.30, then you have to input 'http://10.20.20.30:90' in the address bar of your browser. |

Click 'Apply' to save settings and make the new settings take effect.

### *3.7.2 RTSP*

RTSP (Real-Time Streaming Protocol) allows you to view live video captured by IP camera. You can set RTSP related settings here.




The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Enable RTSP | Select 'Enable' to activate RTSP function of this IP camera, select 'Disable' to disable it. |
| RTSP Port | Input the port number which RTSP will use. Default setting is 554. |
| RTSP Path | Input the path of the RTSP stream. |
| RTSP Port Range | Input the port range of RTSP. Default setting is 50000 to 60000. |

Click 'Apply' to save settings and make the new settings take effect.

### *3.7.3 Dynamic DNS*

If your ISP does not give you a fixed Internet IP address (i.e. the Internet address you're using when you access the Internet is not always the same – ask your ISP for detailed information), you can use this function to help you locate the IP address of this IP camera when you're away from home or office.

Before you can use this function, you'll need to apply for an account at dyndns.org (http://www.dyndns.org). Detailed instructions of how to apply a new account can be found on dyndns.org's website.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Enable DDNS | Select 'Enable' to activate Dynamic DNS function of this IP camera, select 'Disable' to disable it. |
| Provider | Select dynamic DNS service provider here. Only dyndns.org is available currently. |
| Host Name | Input dynamic DNS host name here. |
| User Name | Input dynamic DNS user name here, must be the same as the one you applied on dyndns.org. |
| Password | Input dynamic DNS password here, must be the same as the one you applied on dyndns.org. |

Click 'Apply' to save settings and make the new settings take effect.

### *3.7.4 UPNP*

When UPnP function is activated, all UPnP-compatible computers / network devices will be able to discover this IP camera automatically (only those in the same local network).

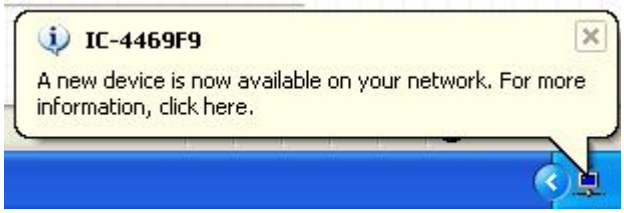
This function is useful and you don't have to remember the IP address of this IP camera. Simply open 'Network neighbourhood' and it's there!

The descriptions of every setting in this menu will be given below:

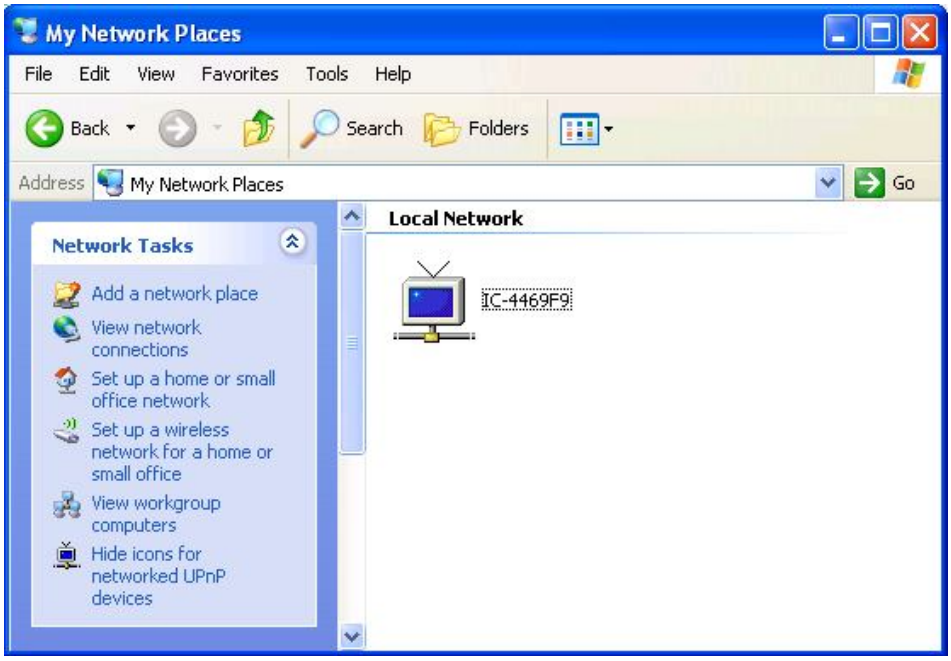
| Item | Description |
|---|---|
| Enable UPnP | Select 'Enable' to activate UPnP function of this IP camera, select 'Disable' to disable it. |

Click 'Apply' to save settings and make the new settings take effect.

After the UPnP function is activated, a popup message will appear:



Click the message to open 'My Network Places', and you'll see the IP camera:


My Network Places
File Edit View Favorites Tools Help
Back Search Folders
Address My Network Places
Go
Network Tasks
Add a network place
View network connections
Set up a home or small office network
Set up a wireless network for a home or small office
View workgroup computers
Hide icons for networked UPnP devices
Local Network
IC-4469F9

You can double-click the icon to launch Internet Explorer and log onto IP camera's web management interface directly.

### *3.7.5 LoginFree*

You can specify a filename here, and everyone who knows this filename can gain access to the picture captured by the IP camera.

For example, if the filename you specified here is 'loginfree' and your IP camera's IP address is '192.168.0.231', then everyone on the network can access to the picture taken by the IP camera at 'http://192.168.0.231/loginfree.jpg'.

This function is for convenience only, and anyone who knows this filename will be able to see the picture taken by your IP camera. Please think again before you use this function.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| LoginFree | Specify the file name of the picture here. If you want to disable this function, leave it blank. |

Click 'Apply' to save settings and make the new settings take effect.

## *3.8 Wireless Settings*

If you wish to use wireless network instead of wired network connection, you have to set the wireless LAN parameters here.

You can access this menu by clicking ‘Network Setup’ on the top of web management interface, and opening the 'Wireless Settings' tab.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Self PinCode | A random 8-digit code will be displayed here. If the wireless AP you wish to connect supports WPS-PIN, please input this code to the AP you wish to connect. This code changes every time you enter this page. |
| Configure via Push Button | If the wireless AP you wish to connect supports push button WPS configuration, click ‘Start PBC’ and press the WPS button on the wireless AP to start pairing.<br><br>You can also press the ‘WPS / Reset’ button located at the back of IP camera for the same purpose. DO NOT press and hold the ‘WPS / Reset’ button for too long. If you press and hold the ‘WPS / Reset’ button for more than 10 seconds, all settings in the IP camera will be lost! |
| Configure via PinCode | If the wireless AP already generates a 8-digit code, please input the code here and click ‘Start PIN’ button to start pairing. |
| Wireless Connection | Select ‘Enable’ to activate wireless network function of this IP camera, select ‘Disable’ to disable it. |
| Network Type | Select the network type of wireless connection.<br><br>Available options are ‘Infrastructure’ (Connect the IP camera to a wireless access point), and ‘Adhoc’ (This IP camera will become a stand-alone wireless network point, other wireless computers / devices can discover this IP camera and connect to it without wireless access point). |

| | |
|---|---|
| | You can set to 'Adhoc' when you don't have any wireless access point, but your computer has wireless network card. Set to 'Infrastructure' when you have wireless access point, and you have computers with wired network connection. |
| Available Networks | Here all wireless access points found by this IP camera are shown. Please note that sometimes, not all available access points will be displayed. If the access point you wish to connect to doesn't appear, you may have to click the 'Refresh' button.<br><br>The descriptions of all fields is listed below:<br><br>Connect: You can select the wireless access point you wish to connect here.<br><br>SSID: the SSID of all found wireless access points will be shown here. Some wireless access point may hide their SSID, in this case, you have to identify them by their MAC address.<br><br>MAC Address: If you there are many wireless access points in proximity or some wireless access point hides it's SSID, you can use MAC address to distinguish them.<br>Signal: Shows the radio signal strength in percent.<br>Channel: Shows the radio channel of this wireless access point.<br><br>Encryption: Shows the encryption type used by this wireless access point. You must use the same encryption type if you wish to connect to a certain wireless access point. If the wireless access point does not use encryption, 'Disabled' will be displayed here.<br><br>Network Type: Shows the network type of a certain wireless access point (Infrastructure or Adhoc). |
| SSID | Input the SSID of the wireless access point you wish to connect. It should be less than 32 alphanumerical characters.<br><br>When you select a wireless access point above, it's SSID will be filled in this field automatically. However, if the SSID is not displayed (the wireless access point you selected choose to hide it's SSID), you have to know it's SSID and input it here, or you will not be able to connect it. |
| Channel | Select the radio channel you wish to use here. When network type is 'Infrastructure', the radio channel is auto-selected according to the channel that wireless access point uses. You can only select the channel number when network type is 'Adhoc'. |
| Basic Rate | Select the maximum wireless data transfer rate here, from 1Mbps to 54Mbps. Maximum transfer rate for 802.11b wireless network is 11Mbps, and maximum transfer rate for 802.11g wireless network is 54Mbps.<br><br>It's recommended to select 'Auto', so the data transfer rate will vary according to the actual signal strength and quality. |
| Authentication | Select the wireless authentication here, and this setting |

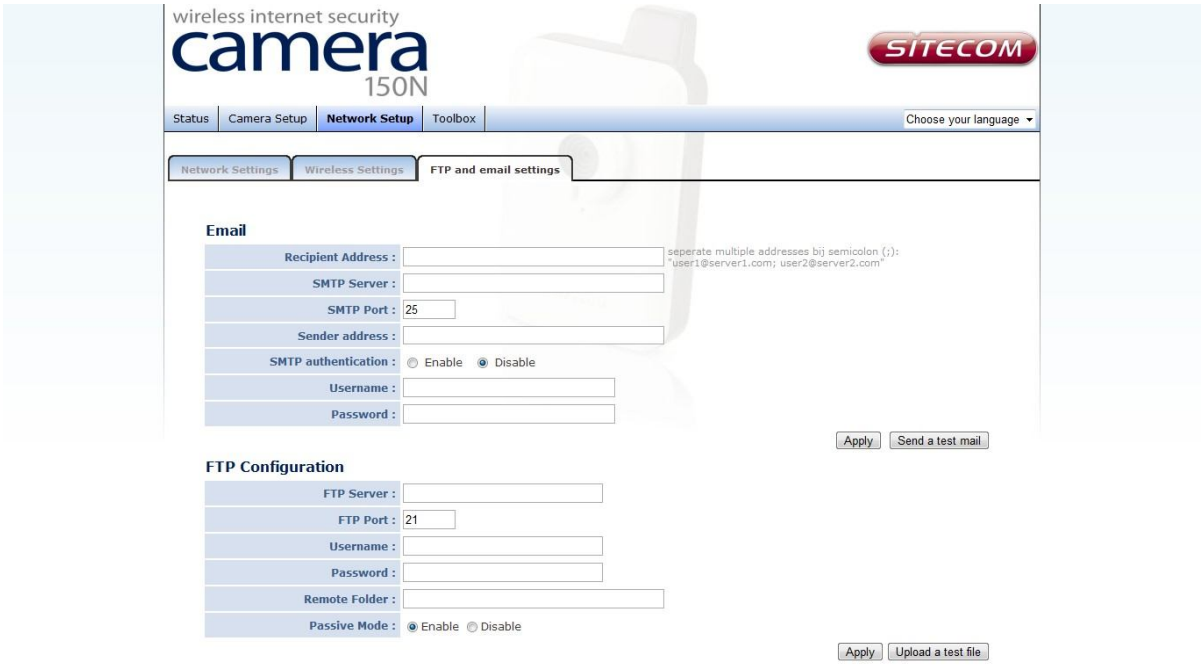
| | |
|---|---|
| | must be the same with the wireless access point you selected.<br><br>When you select a wireless access point from the list, it's authentication type will be selected automatically, and you should not modify it or you will not be able to connect to the wireless access point you selected.<br><br>Available options are: None (no authentication), Open System, Shared Key System, WPA-PSK, WPA2-PSK, and WPANone (the last one is only for Adhoc). |
| Encryption Type | Select the wireless encryption type here, and this setting must be the same with the wireless access point you selected.<br><br>When you select a wireless access point from the list, it's encryption type will be selected automatically, and you should not modify it or you will not be able to connect to the wireless access point you selected.<br><br>Available options are: None, WEP, TKIP and AES. The options available here will vary depends on the authentication type you selected above. If an authentication type does not support need encryption, this field will be grayed out. |
| WPA Pre-Shared Key | Input the WPA pre-shared key here.<br><br>This field is only available when authentication type is WPA-PSK or WPA2-PSK, and will be greyed out when other authentication type is selected. |
| WEP Key Length | Please select the key length when you use WEP encryption. Available options are 64-bit and 128-bit.<br><br>If the key length is 64-bit, you should input 10 HEX characters or 5 ASCII characters, like 112233aabb (HEX) or MYWEP (ASCII).<br><br>If the key length is 128-bit, you should input 26 HEX characters or 13 ASCII characters, like 11223344556677889900abcdef (HEX) or myweppassword (ASCII). |
| WEP Key Format | Select the Key Format of WEP key here. Available options are 'HEX' and 'ASCII'.<br><br>When you select 'HEX' WEP key format, you can only use numbers (0 to 9), and alphabet A to F as WEP key; when you select 'ASCII' WEP key format, you can use all alphanumerical characters, and is case sensitive. |
| Default Key | Select the default key set that is IP camera should use against the wireless access point when WEP encryption is used. Available options are 1 to 4. |
| WEP Key 1 | Input the 1st set of WEP key here. At least a set of WEP key is required and you should use 1st WEP key if you only have one WEP key. |
| WEP Key 2~4 | Input the 2nd /3rd /4th set of WEP key here. |

Click 'Apply' to save settings and make the new settings take effect.

## 3.9 FTP and E-Mail Settings

This IP camera is capable to send an Email or perform FTP upload with captured image, when a motion is detected. This is very convenient since IP camera will guard the environment automatically for you, and you don't have to look at the monitor all the time.

You can access this menu by clicking 'Network Setup' on the top of web management interface, and opening the 'FTP and E-Mail settings' tab.




### 3.9.1 E-Mail settings

These settings are used to send the captured picture via Email:

| Item | Description |
|---|---|
| Recipient E-Mail Address | Input the email recipient's Email address here. If you have more than one Email recipient, please add a ; (semicolon) mark between every Email address. All characters shouldn't exceed 127 characters. |
| SMTP Server | Input the IP address or host name of the SMTP server (the server that delivers the Email for you) here.<br><br>If you don't know, please refer to the SMTP server you're using in your Email software (like Outlook, Outlook Express etc.), or ask your network administrator or ISP. |
| SMTP Port | Input mail server's SMTP port here. Most of mail servers use port number 25. |
| Sender E-Mail Address | Input the Email address of mail sender, this will help you to identify the Email sent by this IP camera by sender's Email address.<br><br>*NOTE: Some mail server would reject to deliver the Email from unknown sender, it's recommended to input your own Email address here, or any other actual one.* |

| | |
|---|---|
| SSL | If SSL encryption is required to connect to the SMTP server, select 'Enable' or SMTP connection may fail; select 'Disable' if your SMTP server doesn't support SSL encryption. If in doubt, ask your ISP or mail server's administrator. |
| SMTP Authentication | Some SMTP server requires mail senders to be authenticated before they can send Email. If your SMTP server requires you to do so, please select 'Enable', or select 'Disable' to disable it. If you don't know, please refer to the SMTP server you're using in your Email software (like Outlook, Outlook Express etc.), or ask your network administrator or ISP. |
| User Name | Please input the user name of SMTP server here, if your SMTP server requires the use of authentication. |
| Password | Please input the password of SMTP server here, if your SMTP server requires the use of authentication. |

Click 'Apply' to save settings and make the new settings take effect.

After that, you can click 'Send a test email' to send a testing Email to the address you set here, so you can make sure the setting you specified here is correct and working.

### *3.9.2 FTP Settings*

These settings are used to send the captured picture by FTP:

The descriptions of every setting in this menu will be given below:

| **Item** | **Description** |
|---|---|
| FTP Server | Input the IP address or host name of the FTP server you wish to use here. |
| FTP Port | Input the port number of the FTP server you wish to use here. |
| User Name | Input the user name of the FTP server you wish to use here. |
| Password | Input the password of the FTP server you wish to use here. |
| Remote Folder | Input the remote folder name on the FTP server here. If nothing is specified here, all uploaded image files will be placed in FTP server's root directory.<br><br>Please ask FTP server's administrator to know which folder you should use. Certain user name may have restrictions and therefore can not place the file in the directory not owned by the user. |
| Passive Mode | Select 'Enable' to use passive mode to send file, or select 'Disable' to not to use passive mode to send file.<br><br>Some FTP servers require passive mode, if you don't know, please ask FTP server's administrator; most of FTP servers will work fine with both modes, but if you found that non-passive mode is not working, you can try to use passive mode. |

Click 'Apply' to save settings and make the new settings take effect.

After that, you can click 'Upload a test file' to send a file to the FTP server you set here, so you can make sure the setting you specified here is correct and working.

## *3.10 System Settings*

Camera information allows you to set the name and administrator's password of this camera, change the time settings, and turn the status LED on or off.

The System Settings menu can be accessed by opening the 'Toolbox' menu, and selecting the 'System Settings' tab.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Camera Name | Please specify the name of this IP Camera here. This can be used to identify your camera on the network when you have more than one IP camera in the same network.<br><br>Default name begins with 'IC-' plus the last 6 characters of the MAC address of this IP camera. You can modify the name to the one you can remember and meaningful to you, but never give all IP cameras in the same network with same name. |
| Password | Please specify user name 'admin' 's password here. (The one you need when you log onto web management interface and use 'admin' as user name. |
| Confirm Password | Please input the same password again, to make sure there's no typo. |
| Set Date/Time manually | Please input the date and time you wish to set here.<br><br>Date / time format is YYYY / MM / DD HH:MM:SS<br>Time is in 24-hour format.<br><br>You can click 'Synchronize to PC time' to use the time of the computer you're using.<br><br>*Example: 24th August 2007 = 2007/ 08 / 24,*<br>*and PM 9:24:30 = 21:24:30* |
| Time Zone | Please select the time zone of the country / city of resident from dropdown menu here. |

| | |
|---|---|
| NTP Server | Please input the IP address or host name of NTP server here. You can use default value ‘pool.ntp.org’, or ask your ISP for the IP address or host name, if they have one. |
| Enable Daylight Saving Time | Select ‘Yes’ if your area of residence uses daylight saving; if not, select ‘No’. |
| Synchronize to PC time | Click this button and the IP camera will use the current time setting of your computer as IP camera’s time setting. |
| LED Setting | Switch the LED light of this IP camera off, so ‘LAN’ and ‘WLAN’ LED on the IP camera will stop working, in case you don’t want other people know the camera is transferring data.<br><br>You can click this button again to switch LED lights on again. |

Click ‘Apply’ to save settings and make the new settings take effect.

## *3.11 User Settings*

If you wish to allow other people to view the image captured by this camera, but don’t want to allow them to modify system settings, you can give them user-level user name and password, so they can only view the image and can not change any system setting.

The user settings menu can be accessed by opening the 'Toolbox' menu, and selecting the 'User settings' tab.

This IP camera supports up to 4 user accounts.

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Login | Specify the user name here. Please use alphanumerical characters (0 to 9, A to Z, and a to z). Not using symbols and space. |
| Password | Specify the password for this user here. |
| Confirm Password | Specify the password for this user here again. |
| Authority | Select ‘Operator’ and this user will be able to change the settings of IP camera; select ‘Guest’ and this user can only view the image. |
| Add | Click ‘Add’ to add a new user with the information listed above. |
| Modify | To modify the information of an existing user, select his / her user account, change the information, and then click this button to save changes. |
| Remove | Select an existing user and click this button to remove it. |

## 3.12 Firmware Update

The descriptions of every setting in this menu will be given below:

| Item | Description |
|---|---|
| Upgrade Firmware | If you downloaded latest firmware file from our website, you can click 'Browse' button to pick the firmware file you wish to use. Then click 'Upgrade' button to start firmware upgrade procedure.<br><br>*It's recommended to use wired Ethernet connection when you use this function, and DO NOT DISCONNECT OR CLOSE THE WEB BROWSER DURING UPGRADE!* |
| Reset | Clear all settings in the camera. Please think again before you do this, and then click this button to reset all settings.<br><br>*NOTE: IP address will be reset to default value '192.168.0.231' also. You'll need to change the IP address setting of your computer if the IP address of your computer does not begin with '192.168.0', and subnet mask is not '255.255.255.0', or you'll not be able to connect to this IP camera again.* |
| Reboot Device | If you found the IP camera is responding slowly or behaves strange, you can click this button to try to reboot the IP camera, this may help. |

# 4. Appendix

## 4.1 Specification

- **Camera / Image:**
  - Dual Mode: MPEG4 and Motion-JPEG Image Video
  - Multiple Profile: Output M-JPEG and MPEG4 at the same time
  - Multi-Area motion detection.
  - Fixed Focus Lens
  - Supports Up to 30 fps Video Frame Rate
  - Event Trigger: Mail & FTP
  - High Speed Hardware-Based Image Compression

- **Utility:**
  - Includes easy-to-use 16 channel Viewer & Recorder utility
  - Admin utility, Camera Viewer & WEB browser management
  - View multiple cameras simultaneously - Up to 16 at a time
  - Auto sending video by E-mail and FTP
  - Supports Windows 2000/XP/Vista/Win7
  - Firmware upgradeable.

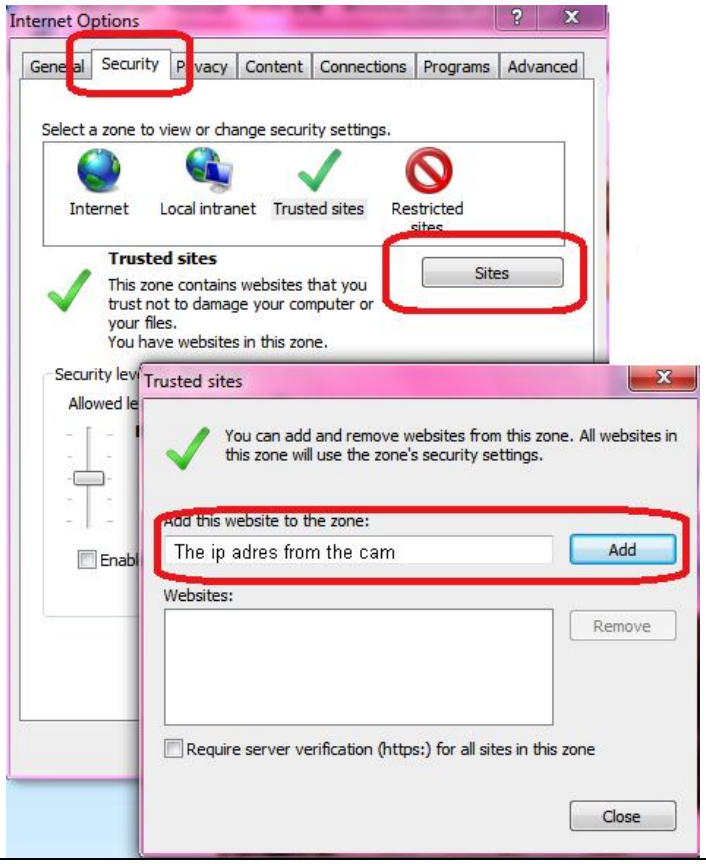
- **Hardware:**

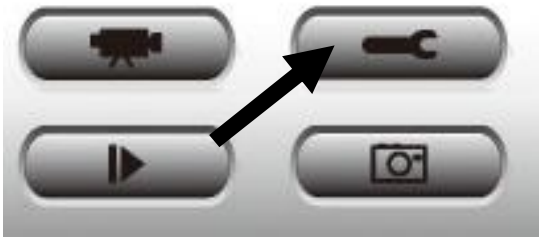
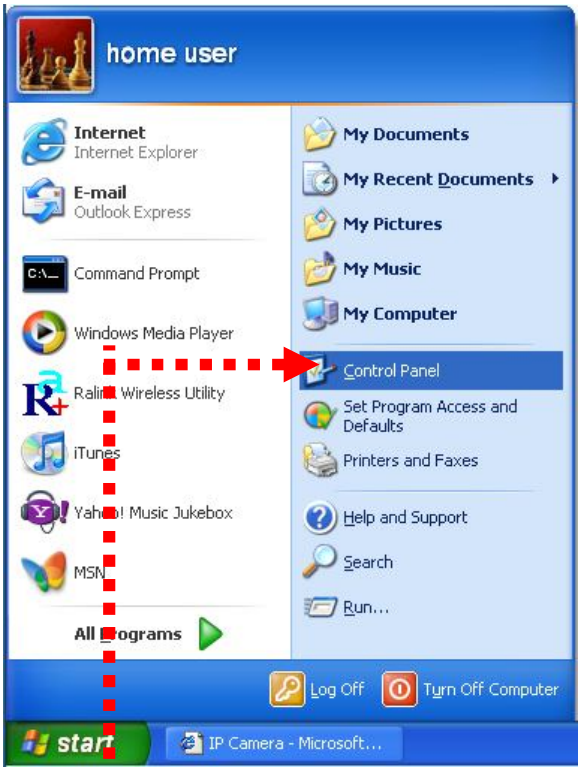
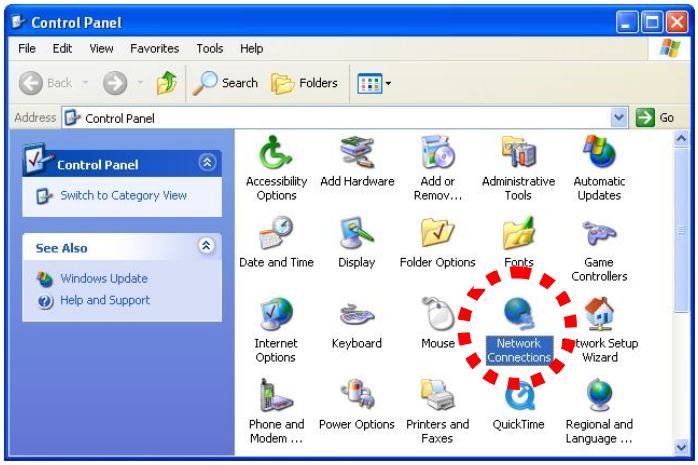
| | |
|---|---|
| **Product** | Dual Mode Internet Camera |
| **Flash** | 4MB |
| **RAM** | 32MB |
| **Image Sensor** | 0.3Mega pixel CMOS Sensor |
| **Lens** | Fixed Focus, F=2.8 |
| **LAN Port** | 10/100M UTP Port x 1 |
| **Power** | 5V DC, 1A Power Adaptor |
| **Dimension** | 92mm x 60mm x 21mm |
| **Temperature** | Operating: 0~40°C /Storage:-20~60 °C |
| **Humidity** | 10~90% (Non-Condensing) |
| **Certification** | FCC Class B, CE Mark |

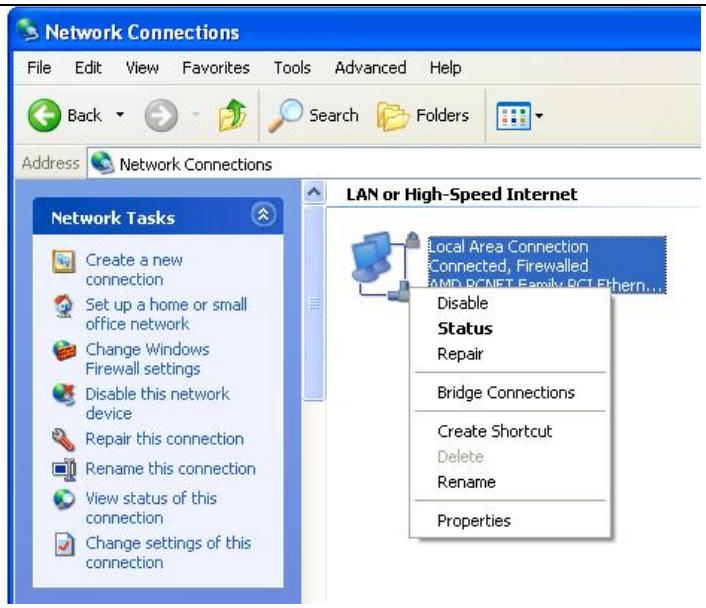
## *4.2 Troubleshooting*

If the IP camera is not working properly, before you contact the dealer of purchase for help, please check the troubleshooting list here, this may help you to solve the problem by yourself and therefore saves your valuable time.

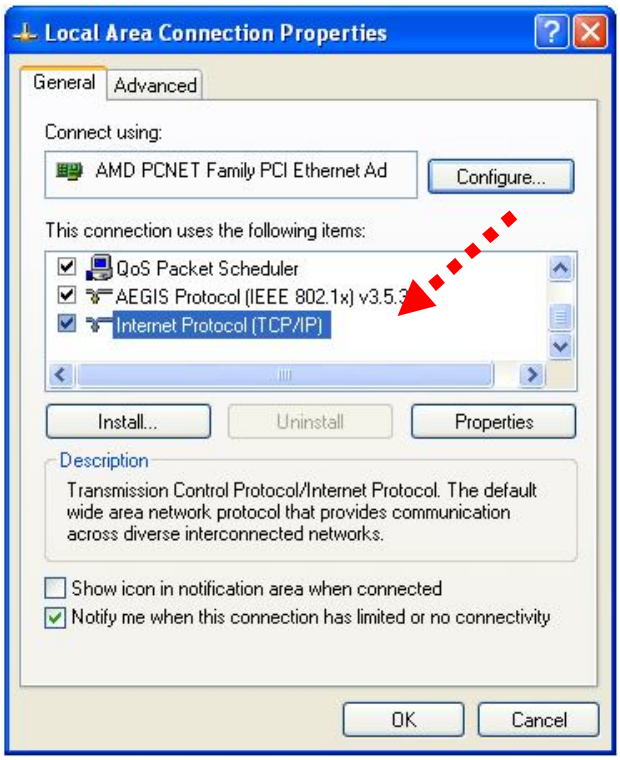
| Scenario | Possible Solution |
|---|---|
| I can not connect to IP camera | a. Please confirm the IP address setting of the computer you're using. If they're not in the same subnet, they will not be able to communicate with each other.<br><br>b. Please make the IP address you used to connect to the IP camera is correct.<br><br>c. If you forget the IP address of the IP camera, you will have to reset it to factory default value (which is 192.168.0.231) by pressing 'reset' button at the bottom of the IP camera. You'll need a pen or pin to be able to press the reset button. Press and hold reset button for 5 seconds, then try to connect to the IP camera with IP address '192.168.0.231' again.<br><br>d. Please make sure IP camera is correctly powered (the 'Power' LED should be on).<br><br>e. If you're trying to connect to the IP camera from Internet, please make sure the port that IP camera uses (Video and HTTP port, see section **XX**) is not blocked by firewall or other software / hardware.<br><br>f. Contact dealer of purchase for help, if above solutions do not work. |
| Image refreshes very slow | a. Try a higher frame rate setting, if it's not 30.<br><br>b. Try a lower resolution.<br><br>c. If you're connecting this camera from Internet, it could be caused by a slow Internet connection, and it's not a problem caused by camera. However, when the network connection is slow, you should use lower frame rate / resolution.<br><br>d. Adjust the antenna if you're using wireless connection. The antenna should be perpendicular to the ground to get best reception, and the distance between IP camera and computer / wireless access point should not be too far.<br><br>e. Try to adjust 'MTU' setting if you're using PPPoE to connect to Internet. Ask your ISP or network administrator for detailed instruction. |
| IP camera is not responding | a. Is the network cable or wireless connection disconnected? Please check it.<br><br>b. Unplug the power adapter from wall socket and plug it in again after 10 seconds, then try to connect to the IP camera again.<br><br>c. If IP camera is correctly powered ('Power' LED is on), but you still can not connect to the camera when you're sure that IP |

| | |
|---|---|
| | address is correct, please contact dealer of purchase for help). |
| Image is fuzzy | a. Use a soft cloth to clean the lens on the camera. You can use cloth with water, but *DO NOT* use alcohol or other chemical solution.<br><br>b. Try to adjust brightness setting.<br><br>c. If there's any light at the place where IP camera is located, switch it on and see if image looks better. |
| I set the IP camera to send image by Email or FTP, but nothing is received | a. If the image is send by Email, please make sure it's not blocked by any anti-spam mechanism.<br><br>b. Please make sure you have enough permission for FTP uploading (You can try this by clicking 'Upload a test file' button).<br><br>c. Make sure the user name and / or password of SMTP server is correct, if your SMTP server requires authentication (You can try this by click 'Send a test Email' button).<br><br>d. Please check log, if FTP upload or Email sending is failed, it will be logged, and this may give you some clue on how to solve the problem.<br><br>e. Change the threshold to a more sensitive setting. |
| IP camera is not able to make a snapshot. | Please make sure under Windows Vista and Windows 7 that UAC is disabled if you are using Microsoft Internet explorer.<br><br>  |

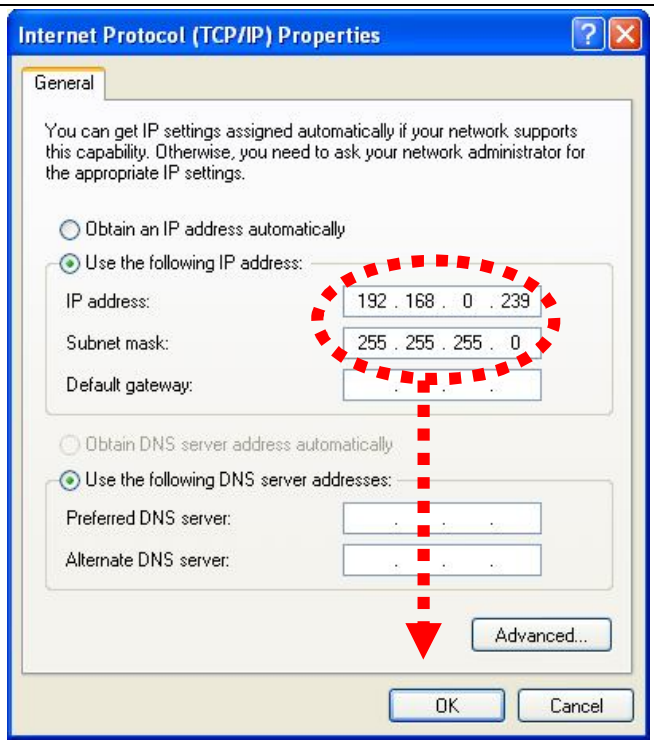
| | |
|---|---|
| How can I find the IP address from the IP cam? | Please open the utility and press the following button.<br>And you will see the IP address from the cam<br>  |
| How can I give up a static IP address when I'm connected the Cam by cable | Click 'Start' -> 'Control Panel'<br>  <br><br>Double-click 'Network Connections' icon.<br>  <br><br>Right-click 'Local Area Connection', and click 'Properties'. |




Select ‘Internet Protocol (TCP/IP)’, then click ‘Properties’.


Local Area Connection Properties
General Advanced
Connect using:
AMD PCNET Family PCI Ethernet Ad
Configure...
This connection uses the following items:
QoS Packet Scheduler
AEGIS Protocol (IEEE 802.1x) v3.5.3
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
Notify me when this connection has limited or no connectivity
OK
Cancel

In ‘IP address’ field, please enter any IP address that begins with ‘192.168.0’, and ends with a value greater than 2 and less than 254 (You can use the example in the picture ‘192.168.0.239’). In Subnet mask field, please fill ‘255.255.255.0’. Please keep all other fields empty, and click ‘OK’.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 239
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

If you've changed the IP address of this IP camera and you forget it, there are 3 ways you can recover it:

1.Press and hold the 'Reset' button (for 15 seconds) located at the bottom of this IP camera, to clear all settings of the IP camera and reset the IP address back to 192.168.0.231. You'll lose all settings in the IP camera.

2.Ask network administrator to check the DHCP lease table (in the router), if the camera was set to obtain the IP address by DHCP, a new record will be added to DHCP lease table on the DHCP server when the IP camera is connected to the local area network.

3.Use the "Admin"-utility to find and/or change the IP-address of the camera.
(See chapter **2.1**)